TABLE C.3-7.18.RME
CALCULATION OF NON-CANCER .DS
REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: River/Stream
Receptor Population: 4-Day Recreational User
Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion													
	Benzo(a)anthracene	1.3E+00	mg/kg	1.3E+00	mg/kg	M	2.5E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(a)pyrene	1.4E+00	mg/kg	1.4E+00	mg/kg	M	2.7E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(b)fluoranthene	1.8E+00	mg/kg	1.8E+00	mg/kg	M	3.4E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(k)fluoranthene	1.6E+00	mg/kg	1.6E+00	mg/kg	M	3.1E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	2.8E-01	mg/kg	2.8E-01	mg/kg	M	5.4E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	1.5E+00	mg/kg	1.5E+00	mg/kg	M	2.9E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	3.2E-06	mg/kg-day	2.0E-02	mg/kg-day	N/A	N/A	1.6E-04
	Antimony	3.5E+00	mg/kg	3.5E+00	mg/kg	M	6.7E-06	mg/kg-day	4.0E-04	mg/kg-day	N/A	N/A	1.7E-02
	Arsenic	2.6E+01	mg/kg	2.6E+01	mg/kg	M	5.0E-05	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	1.7E-01
	Cadmium	6.1E+00	mg/kg	6.1E+00	mg/kg	M	1.2E-05	mg/kg-day	1.0E-03	mg/kg-day	N/A	N/A	1.2E-02
	Chromium	3.5E+02	mg/kg	3.5E+02	mg/kg	M	6.7E-04	mg/kg-day	3.0E-03	mg/kg-day	N/A	N/A	2.2E-01
	Copper	3.4E+02	mg/kg	3.4E+02	mg/kg	M	6.5E-04	mg/kg-day	4.0E-02	mg/kg-day	N/A	N/A	1.6E-02
	Lead												
	Manganese	2.0E+03	mg/kg	2.0E+03	mg/kg	M	3.8E-03	mg/kg-day	7.0E-02	mg/kg-day	N/A	N/A	5.4E-02
	Mercury	6.0E-01	mg/kg	6.0E-01	mg/kg	M	1.1E-06	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	3.8E-03
	Vanadium	3.4E+01	mg/kg	3.4E+01	mg/kg	M	6.5E-05	mg/kg-day	9.0E-03	mg/kg-day	N/A	N/A	7.2E-03
	(Total)												5.0E-01
Dermal													
	Benzo(a)anthracene	1.3E+00	mg/kg	1.3E+00	mg/kg	M	2.7E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(a)pyrene	1.4E+00	mg/kg	1.4E+00	mg/kg	M	2.9E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(b)fluoranthene	1.8E+00	mg/kg	1.8E+00	mg/kg	M	3.7E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(k)fluoranthene	1.6E+00	mg/kg	1.6E+00	mg/kg	M	3.3E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	2.8E-01	mg/kg	2.8E-01	mg/kg	M	5.9E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	1.5E+00	mg/kg	1.5E+00	mg/kg	M	3.1E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	3.5E-06	mg/kg-day	2.0E-02	mg/kg-day	N/A	N/A	1.7E-04
	Arsenic	2.6E+01	mg/kg	2.6E+01	mg/kg	M	1.3E-05	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	4.2E-02
	Cadmium	6.1E+00	mg/kg	6.1E+00	mg/kg	M	9.7E-07	mg/kg-day	1.0E-05	mg/kg-day	N/A	N/A	9.7E-02
	(Total)												1.4E-01
												Total Hazard Index Across All Exposure Routes/Pathways	6E-01

(1) Medium-Specific (M) EPC selected for hazard calculation.
N/A = Not Applicable
EPC = Exposure Point Concentration
Hazard Quotient = Non-Cancer Intake / Reference Dose

TABLE C.3-7.[illegible]
CALCULATION OF NON-CA[illegible] HAZARDS
CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: River/Stream
Receptor Population: 4-Day Recreational User
Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion													
	Benzo(a)anthracene	1.3E+00	mg/kg	1.3E+00	mg/kg	M	9.2E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(a)pyrene	1.4E+00	mg/kg	1.4E+00	mg/kg	M	1.0E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(b)fluoranthene	1.8E+00	mg/kg	1.8E+00	mg/kg	M	1.3E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(k)fluoranthene	1.6E+00	mg/kg	1.6E+00	mg/kg	M	1.1E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	2.8E-01	mg/kg	2.8E-01	mg/kg	M	2.0E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	1.5E+00	mg/kg	1.5E+00	mg/kg	M	1.1E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	1.2E-06	mg/kg-day	2.0E-02	mg/kg-day	N/A	N/A	5.9E-05
	Antimony	3.5E+00	mg/kg	3.5E+00	mg/kg	M	2.5E-06	mg/kg-day	4.0E-04	mg/kg-day	N/A	N/A	6.3E-03
	Arsenic	2.6E+01	mg/kg	2.6E+01	mg/kg	M	1.9E-05	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	6.3E-02
	Cadmium	6.1E+00	mg/kg	6.1E+00	mg/kg	M	4.3E-06	mg/kg-day	1.0E-03	mg/kg-day	N/A	N/A	4.3E-03
	Chromium	3.5E+02	mg/kg	3.5E+02	mg/kg	M	2.5E-04	mg/kg-day	3.0E-03	mg/kg-day	N/A	N/A	8.4E-02
	Copper	3.4E+02	mg/kg	3.4E+02	mg/kg	M	2.5E-04	mg/kg-day	4.0E-02	mg/kg-day	N/A	N/A	6.1E-03
	Lead												
	Manganese	2.0E+03	mg/kg	2.0E+03	mg/kg	M	1.4E-03	mg/kg-day	7.0E-02	mg/kg-day	N/A	N/A	2.0E-02
	Mercury	6.0E-01	mg/kg	6.0E-01	mg/kg	M	4.3E-07	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	1.4E-03
	Vanadium	3.4E+01	mg/kg	3.4E+01	mg/kg	M	2.4E-05	mg/kg-day	9.0E-03	mg/kg-day	N/A	N/A	2.7E-03
	(Total)												1.9E-01
Dermal													
	Benzo(a)anthracene	1.3E+00	mg/kg	1.3E+00	mg/kg	M	2.0E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(a)pyrene	1.4E+00	mg/kg	1.4E+00	mg/kg	M	2.2E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(b)fluoranthene	1.8E+00	mg/kg	1.8E+00	mg/kg	M	2.8E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(k)fluoranthene	1.6E+00	mg/kg	1.6E+00	mg/kg	M	2.5E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	2.8E-01	mg/kg	2.8E-01	mg/kg	M	4.4E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	1.5E+00	mg/kg	1.5E+00	mg/kg	M	2.4E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	2.6E-06	mg/kg-day	2.0E-02	mg/kg-day	N/A	N/A	1.3E-04
	Arsenic	2.6E+01	mg/kg	2.6E+01	mg/kg	M	9.5E-06	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	3.2E-02
	Cadmium	6.1E+00	mg/kg	6.1E+00	mg/kg	M	7.3E-07	mg/kg-day	1.0E-05	mg/kg-day	N/A	N/A	7.3E-02
	(Total)												1.0E-01
												Total Hazard Index Across All Exposure Routes/Pathways	3E-01

(1) Medium-Specific (M) EPC selected for hazard calculation.
N/A = Not Applicable
EPC = Exposure Point Concentration
Hazard Quotient = Non-Cancer Intake / Reference Dose

TABLE C.3-7.19.Rev2
CALCULATION OF NON-CANCER RDS
REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: Wetland
Receptor Population: 1-Day Recreational User
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion													
	Benzo(a)anthracene	3.8E+00	mg/kg	3.8E+00	mg/kg	M	1.9E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(a)pyrene	3.2E+00	mg/kg	3.2E+00	mg/kg	M	1.6E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(b)fluoranthene	6.0E+00	mg/kg	6.0E+00	mg/kg	M	3.1E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(k)fluoranthene	9.6E+00	mg/kg	9.6E+00	mg/kg	M	4.9E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	3.5E-01	mg/kg	3.5E-01	mg/kg	M	1.8E-08	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	8.6E-08	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	1.2E+01	mg/kg	1.2E+01	mg/kg	M	6.0E-07	mg/kg-day	2.0E-02	mg/kg-day	N/A	N/A	3.0E-05
	Aroclor 1248	2.6E-01	mg/kg	2.6E-01	mg/kg	M	1.3E-08	mg/kg-day	2.0E-05	mg/kg-day	N/A	N/A	6.6E-04
	Antimony	1.0E+00	mg/kg	1.0E+00	mg/kg	M	5.3E-08	mg/kg-day	4.0E-04	mg/kg-day	N/A	N/A	1.3E-04
	Arsenic	3.3E+01	mg/kg	3.3E+01	mg/kg	M	1.7E-06	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	5.6E-03
	Cadmium	2.2E+00	mg/kg	2.2E+00	mg/kg	M	1.1E-07	mg/kg-day	1.0E-03	mg/kg-day	N/A	N/A	1.1E-04
	Chromium	4.1E+02	mg/kg	4.1E+02	mg/kg	M	2.1E-05	mg/kg-day	3.0E-03	mg/kg-day	N/A	N/A	7.0E-03
	Copper	9.3E+01	mg/kg	9.3E+01	mg/kg	M	4.8E-06	mg/kg-day	4.0E-02	mg/kg-day	N/A	N/A	1.2E-04
	Lead												
	Manganese	2.1E+02	mg/kg	2.1E+02	mg/kg	M	1.1E-05	mg/kg-day	7.0E-02	mg/kg-day	N/A	N/A	1.5E-04
	Mercury	7.1E-01	mg/kg	7.1E-01	mg/kg	M	3.6E-08	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	1.2E-04
	Vanadium	9.9E+01	mg/kg	9.9E+01	mg/kg	M	5.0E-06	mg/kg-day	9.0E-03	mg/kg-day	N/A	N/A	5.6E-04
	(Total)												1.4E-02
Dermal													
	Benzo(a)anthracene	3.8E+00	mg/kg	3.8E+00	mg/kg	M	2.0E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(a)pyrene	3.2E+00	mg/kg	3.2E+00	mg/kg	M	1.7E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(b)fluoranthene	6.0E+00	mg/kg	6.0E+00	mg/kg	M	3.2E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(k)fluoranthene	9.6E+00	mg/kg	9.6E+00	mg/kg	M	5.1E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	3.5E-01	mg/kg	3.5E-01	mg/kg	M	1.8E-08	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	9.0E-08	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	1.2E+01	mg/kg	1.2E+01	mg/kg	M	6.2E-07	mg/kg-day	2.0E-02	mg/kg-day	N/A	N/A	3.1E-05
	Aroclor 1248	2.6E-01	mg/kg	2.6E-01	mg/kg	M	1.5E-08	mg/kg-day	2.0E-05	mg/kg-day	N/A	N/A	7.4E-04
	Arsenic	3.3E+01	mg/kg	3.3E+01	mg/kg	M	4.0E-07	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	1.3E-03
	Cadmium	2.2E+00	mg/kg	2.2E+00	mg/kg	M	8.8E-09	mg/kg-day	1.0E-05	mg/kg-day	N/A	N/A	8.8E-04
	(Total)												3.0E-03
												Total Hazard Index Across All Exposure Routes/Pathways	2E-02

(1) Medium-Specific (M) EPC selected for hazard calculation.
N/A = Not Applicable
EPC = Exposure Point Concentration
Hazard Quotient = Non-Cancer Intake / Reference Dose

TABLE C.3-7
CALCULATION OF NON-CANCER HAZARDS
CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: Wetland
Receptor Population: 1-Day Recreational User
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion													
	Benzo(a)anthracene	3.8E+00	mg/kg	3.8E+00	mg/kg	M	9.7E-08	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(a)pyrene	3.2E+00	mg/kg	3.2E+00	mg/kg	M	8.1E-08	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(b)fluoranthene	6.0E+00	mg/kg	6.0E+00	mg/kg	M	1.5E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(k)fluoranthene	9.6E+00	mg/kg	9.6E+00	mg/kg	M	2.4E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	3.5E-01	mg/kg	3.5E-01	mg/kg	M	8.9E-09	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	4.3E-08	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	1.2E+01	mg/kg	1.2E+01	mg/kg	M	3.0E-07	mg/kg-day	2.0E-02	mg/kg-day	N/A	N/A	1.5E-05
	Aroclor 1248	2.6E-01	mg/kg	2.6E-01	mg/kg	M	6.6E-09	mg/kg-day	2.0E-05	mg/kg-day	N/A	N/A	3.3E-04
	Antimony	1.0E+00	mg/kg	1.0E+00	mg/kg	M	2.7E-08	mg/kg-day	4.0E-04	mg/kg-day	N/A	N/A	6.7E-05
	Arsenic	3.3E+01	mg/kg	3.3E+01	mg/kg	M	8.3E-07	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	2.8E-03
	Cadmium	2.2E+00	mg/kg	2.2E+00	mg/kg	M	5.5E-08	mg/kg-day	1.0E-03	mg/kg-day	N/A	N/A	5.5E-05
	Chromium	4.1E+02	mg/kg	4.1E+02	mg/kg	M	1.0E-05	mg/kg-day	3.0E-03	mg/kg-day	N/A	N/A	3.5E-03
	Copper	9.3E+01	mg/kg	9.3E+01	mg/kg	M	2.4E-06	mg/kg-day	4.0E-02	mg/kg-day	N/A	N/A	5.9E-05
	Lead												
	Manganese	2.1E+02	mg/kg	2.1E+02	mg/kg	M	5.3E-06	mg/kg-day	7.0E-02	mg/kg-day	N/A	N/A	7.6E-05
	Mercury	7.1E-01	mg/kg	7.1E-01	mg/kg	M	1.8E-08	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	6.0E-05
	Vanadium	9.9E+01	mg/kg	9.9E+01	mg/kg	M	2.5E-06	mg/kg-day	9.0E-03	mg/kg-day	N/A	N/A	2.8E-04
	(Total)												7.2E-03
Dermal													
	Benzo(a)anthracene	3.8E+00	mg/kg	3.8E+00	mg/kg	M	2.0E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(a)pyrene	3.2E+00	mg/kg	3.2E+00	mg/kg	M	1.7E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(b)fluoranthene	6.0E+00	mg/kg	6.0E+00	mg/kg	M	3.2E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(k)fluoranthene	9.6E+00	mg/kg	9.6E+00	mg/kg	M	5.1E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	3.5E-01	mg/kg	3.5E-01	mg/kg	M	1.8E-08	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	9.0E-08	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	1.2E+01	mg/kg	1.2E+01	mg/kg	M	6.2E-07	mg/kg-day	2.0E-02	mg/kg-day	N/A	N/A	3.1E-05
	Aroclor 1248	2.6E-01	mg/kg	2.6E-01	mg/kg	M	1.5E-08	mg/kg-day	2.0E-05	mg/kg-day	N/A	N/A	7.4E-04
	Arsenic	3.3E+01	mg/kg	3.3E+01	mg/kg	M	4.0E-07	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	1.3E-03
	Cadmium	2.2E+00	mg/kg	2.2E+00	mg/kg	M	6.8E-09	mg/kg-day	1.0E-05	mg/kg-day	N/A	N/A	6.8E-04
	(Total)												3.0E-03
												Total Hazard Index Across All Exposure Routes/Pathways	1E-02

(1) Medium-Specific (M) EPC selected for hazard calculation.
N/A = Not Applicable
EPC = Exposure Point Concentration
Hazard Quotient = Non-Cancer Intake / Reference Dose

TABLE C.3-7.20.R
CALCULATION OF NON-CANCER R S
REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: Wetland
Receptor Population: 1-Day Recreational User
Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion													
	Benzo(a)anthracene	3.8E+00	mg/kg	3.8E+00	mg/kg	M	1.8E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(a)pyrene	3.2E+00	mg/kg	3.2E+00	mg/kg	M	1.5E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(b)fluoranthene	6.0E+00	mg/kg	6.0E+00	mg/kg	M	2.9E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(k)fluoranthene	9.6E+00	mg/kg	9.6E+00	mg/kg	M	4.6E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	3.5E-01	mg/kg	3.5E-01	mg/kg	M	1.7E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	8.1E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	1.2E+01	mg/kg	1.2E+01	mg/kg	M	5.6E-06	mg/kg-day	2.0E-02	mg/kg-day	N/A	N/A	2.8E-04
	Aroclor 1248	2.6E-01	mg/kg	2.6E-01	mg/kg	M	1.2E-07	mg/kg-day	2.0E-05	mg/kg-day	N/A	N/A	6.2E-03
	Antimony	1.0E+00	mg/kg	1.0E+00	mg/kg	M	5.0E-07	mg/kg-day	4.0E-04	mg/kg-day	N/A	N/A	1.2E-03
	Arsenic	3.3E+01	mg/kg	3.3E+01	mg/kg	M	1.6E-05	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	5.2E-02
	Cadmium	2.2E+00	mg/kg	2.2E+00	mg/kg	M	1.0E-06	mg/kg-day	1.0E-03	mg/kg-day	N/A	N/A	1.0E-03
	Chromium	4.1E+02	mg/kg	4.1E+02	mg/kg	M	1.9E-04	mg/kg-day	3.0E-03	mg/kg-day	N/A	N/A	6.5E-02
	Copper	9.3E+01	mg/kg	9.3E+01	mg/kg	M	4.4E-05	mg/kg-day	4.0E-02	mg/kg-day	N/A	N/A	1.1E-03
	Lead												
	Manganese	2.1E+02	mg/kg	2.1E+02	mg/kg	M	1.0E-04	mg/kg-day	7.0E-02	mg/kg-day	N/A	N/A	1.4E-03
	Mercury	7.1E-01	mg/kg	7.1E-01	mg/kg	M	3.4E-07	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	1.1E-03
	Vanadium	9.9E+01	mg/kg	9.9E+01	mg/kg	M	4.7E-05	mg/kg-day	9.0E-03	mg/kg-day	N/A	N/A	5.2E-03
	(Total)												1.3E-01
Dermal													
	Benzo(a)anthracene	3.8E+00	mg/kg	3.8E+00	mg/kg	M	2.0E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(a)pyrene	3.2E+00	mg/kg	3.2E+00	mg/kg	M	1.7E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(b)fluoranthene	6.0E+00	mg/kg	6.0E+00	mg/kg	M	3.1E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(k)fluoranthene	9.6E+00	mg/kg	9.6E+00	mg/kg	M	5.0E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	3.5E-01	mg/kg	3.5E-01	mg/kg	M	1.8E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	8.8E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	1.2E+01	mg/kg	1.2E+01	mg/kg	M	6.1E-06	mg/kg-day	2.0E-02	mg/kg-day	N/A	N/A	3.0E-04
	Aroclor 1248	2.6E-01	mg/kg	2.6E-01	mg/kg	M	1.5E-07	mg/kg-day	2.0E-05	mg/kg-day	N/A	N/A	7.3E-03
	Arsenic	3.3E+01	mg/kg	3.3E+01	mg/kg	M	3.9E-06	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	1.3E-02
	Cadmium	2.2E+00	mg/kg	2.2E+00	mg/kg	M	8.6E-08	mg/kg-day	1.0E-05	mg/kg-day	N/A	N/A	8.6E-03
	(Total)												2.9E-02
												Total Hazard Index Across All Exposure Routes/Pathways	2E-01

(1) Medium-Specific (M) EPC selected for hazard calculation.
N/A = Not Applicable
EPC = Exposure Point Concentration
Hazard Quotient = Non-Cancer Intake / Reference Dose

TABLE C-1
CALCULATION OF NON-C[illegible] HAZARDS
CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: Wetland
Receptor Population: 1-Day Recreational User
Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion													
	Benzo(a)anthracene	3.8E+00	mg/kg	3.8E+00	mg/kg	M	9.1E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(a)pyrene	3.2E+00	mg/kg	3.2E+00	mg/kg	M	7.6E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(b)fluoranthene	6.0E+00	mg/kg	6.0E+00	mg/kg	M	1.4E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(k)fluoranthene	9.6E+00	mg/kg	9.6E+00	mg/kg	M	2.3E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	3.5E-01	mg/kg	3.5E-01	mg/kg	M	8.3E-08	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	4.0E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	1.2E+01	mg/kg	1.2E+01	mg/kg	M	2.8E-06	mg/kg-day	2.0E-02	mg/kg-day	N/A	N/A	1.4E-04
	Aroclor 1248	2.6E-01	mg/kg	2.6E-01	mg/kg	M	6.2E-08	mg/kg-day	2.0E-05	mg/kg-day	N/A	N/A	3.1E-03
	Antimony	1.0E+00	mg/kg	1.0E+00	mg/kg	M	2.5E-07	mg/kg-day	4.0E-04	mg/kg-day	N/A	N/A	6.2E-04
	Arsenic	3.3E+01	mg/kg	3.3E+01	mg/kg	M	7.8E-06	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	2.6E-02
	Cadmium	2.2E+00	mg/kg	2.2E+00	mg/kg	M	5.1E-07	mg/kg-day	1.0E-03	mg/kg-day	N/A	N/A	5.1E-04
	Chromium	4.1E+02	mg/kg	4.1E+02	mg/kg	M	9.7E-05	mg/kg-day	3.0E-03	mg/kg-day	N/A	N/A	3.2E-02
	Copper	9.3E+01	mg/kg	9.3E+01	mg/kg	M	2.2E-05	mg/kg-day	4.0E-02	mg/kg-day	N/A	N/A	5.5E-04
	Lead												
	Manganese	2.1E+02	mg/kg	2.1E+02	mg/kg	M	5.0E-05	mg/kg-day	7.0E-02	mg/kg-day	N/A	N/A	7.1E-04
	Mercury	7.1E-01	mg/kg	7.1E-01	mg/kg	M	1.7E-07	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	5.6E-04
	Vanadium	9.9E+01	mg/kg	9.9E+01	mg/kg	M	2.3E-05	mg/kg-day	9.0E-03	mg/kg-day	N/A	N/A	2.6E-03
	(Total)												6.7E-02
Dermal													
	Benzo(a)anthracene	3.8E+00	mg/kg	3.8E+00	mg/kg	M	2.0E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(a)pyrene	3.2E+00	mg/kg	3.2E+00	mg/kg	M	1.7E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(b)fluoranthene	6.0E+00	mg/kg	6.0E+00	mg/kg	M	3.1E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(k)fluoranthene	9.6E+00	mg/kg	9.6E+00	mg/kg	M	5.0E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	3.5E-01	mg/kg	3.5E-01	mg/kg	M	1.8E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	8.8E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	1.2E+01	mg/kg	1.2E+01	mg/kg	M	6.1E-06	mg/kg-day	2.0E-02	mg/kg-day	N/A	N/A	3.0E-04
	Aroclor 1248	2.6E-01	mg/kg	2.6E-01	mg/kg	M	1.5E-07	mg/kg-day	2.0E-05	mg/kg-day	N/A	N/A	7.3E-03
	Arsenic	3.3E+01	mg/kg	3.3E+01	mg/kg	M	3.9E-06	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	1.3E-02
	Cadmium	2.2E+00	mg/kg	2.2E+00	mg/kg	M	8.8E-08	mg/kg-day	1.0E-05	mg/kg-day	N/A	N/A	8.8E-03
	(Total)												2.9E-02
										Total Hazard Index Across All Exposure Routes/Pathways			1E-01

(1) Medium-Specific (M) EPC selected for hazard calculation.
N/A = Not Applicable
EPC = Exposure Point Concentration
Hazard Quotient = Non-Cancer Intake / Reference Dose

TABLE C.3-7.21.RME
CALCULATION OF NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: Wetland
Receptor Population: 4-Day Recreational User
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion													
	Benzo(a)anthracene	3.8E+00	mg/kg	3.8E+00	mg/kg	M	7.8E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(a)pyrene	3.2E+00	mg/kg	3.2E+00	mg/kg	M	6.5E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(b)fluoranthene	6.0E+00	mg/kg	6.0E+00	mg/kg	M	1.2E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(k)fluoranthene	9.6E+00	mg/kg	9.6E+00	mg/kg	M	2.0E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	3.5E-01	mg/kg	3.5E-01	mg/kg	M	7.1E-08	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	3.5E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	1.2E+01	mg/kg	1.2E+01	mg/kg	M	2.4E-06	mg/kg-day	2.0E-02	mg/kg-day	N/A	N/A	1.2E-04
	Aroclor 1248	2.6E-01	mg/kg	2.6E-01	mg/kg	M	5.3E-08	mg/kg-day	2.0E-05	mg/kg-day	N/A	N/A	2.7E-03
	Antimony	1.0E+00	mg/kg	1.0E+00	mg/kg	M	2.1E-07	mg/kg-day	4.0E-04	mg/kg-day	N/A	N/A	5.3E-04
	Arsenic	3.3E+01	mg/kg	3.3E+01	mg/kg	M	6.7E-06	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	2.2E-02
	Cadmium	2.2E+00	mg/kg	2.2E+00	mg/kg	M	4.4E-07	mg/kg-day	1.0E-03	mg/kg-day	N/A	N/A	4.4E-04
	Chromium	4.1E+02	mg/kg	4.1E+02	mg/kg	M	8.3E-05	mg/kg-day	3.0E-03	mg/kg-day	N/A	N/A	2.8E-02
	Copper	9.3E+01	mg/kg	9.3E+01	mg/kg	M	1.9E-05	mg/kg-day	4.0E-02	mg/kg-day	N/A	N/A	4.8E-04
	Lead												
	Manganese	2.1E+02	mg/kg	2.1E+02	mg/kg	M	4.3E-05	mg/kg-day	7.0E-02	mg/kg-day	N/A	N/A	6.1E-04
	Mercury	7.1E-01	mg/kg	7.1E-01	mg/kg	M	1.4E-07	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	4.8E-04
	Vanadium	9.9E+01	mg/kg	9.9E+01	mg/kg	M	2.0E-05	mg/kg-day	9.0E-03	mg/kg-day	N/A	N/A	2.2E-03
	(Total)												5.8E-02
Dermal													
	Benzo(a)anthracene	3.8E+00	mg/kg	3.8E+00	mg/kg	M	8.1E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(a)pyrene	3.2E+00	mg/kg	3.2E+00	mg/kg	M	6.7E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(b)fluoranthene	6.0E+00	mg/kg	6.0E+00	mg/kg	M	1.3E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(k)fluoranthene	9.6E+00	mg/kg	9.6E+00	mg/kg	M	2.0E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	3.5E-01	mg/kg	3.5E-01	mg/kg	M	7.4E-08	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	3.6E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	1.2E+01	mg/kg	1.2E+01	mg/kg	M	2.5E-06	mg/kg-day	2.0E-02	mg/kg-day	N/A	N/A	1.2E-04
	Aroclor 1248	2.6E-01	mg/kg	2.6E-01	mg/kg	M	5.9E-06	mg/kg-day	2.0E-05	mg/kg-day	N/A	N/A	3.0E-03
	Arsenic	3.3E+01	mg/kg	3.3E+01	mg/kg	M	1.6E-06	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	5.3E-03
	Cadmium	2.2E+00	mg/kg	2.2E+00	mg/kg	M	3.5E-08	mg/kg-day	1.0E-05	mg/kg-day	N/A	N/A	3.5E-03
	(Total)												1.2E-02
										Total Hazard Index Across All Exposure Routes/Pathways			7E-02

(1) Medium-Specific (M) EPC selected for hazard calculation.
N/A = Not Applicable
EPC = Exposure Point Concentration
Hazard Quotient = Non-Cancer Intake / Reference Dose

TABLE [illegible]
CALCULATION OF NON-CA[illegible] HAZARDS
CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: Wetland
Receptor Population: 4-Day Recreational User
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion													
	Benzo(a)anthracene	3.8E+00	mg/kg	3.8E+00	mg/kg	M	2.9E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(a)pyrene	3.2E+00	mg/kg	3.2E+00	mg/kg	M	2.4E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(b)fluoranthene	6.0E+00	mg/kg	6.0E+00	mg/kg	M	4.6E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(k)fluoranthene	9.6E+00	mg/kg	9.6E+00	mg/kg	M	7.3E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	3.5E-01	mg/kg	3.5E-01	mg/kg	M	2.7E-08	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	1.3E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	1.2E+01	mg/kg	1.2E+01	mg/kg	M	8.9E-07	mg/kg-day	2.0E-02	mg/kg-day	N/A	N/A	4.5E-05
	Aroclor 1248	2.6E-01	mg/kg	2.6E-01	mg/kg	M	2.0E-08	mg/kg-day	2.0E-05	mg/kg-day	N/A	N/A	1.0E-03
	Antimony	1.0E+00	mg/kg	1.0E+00	mg/kg	M	8.0E-08	mg/kg-day	4.0E-04	mg/kg-day	N/A	N/A	2.0E-04
	Arsenic	3.3E+01	mg/kg	3.3E+01	mg/kg	M	2.5E-06	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	8.3E-03
	Cadmium	2.2E+00	mg/kg	2.2E+00	mg/kg	M	1.7E-07	mg/kg-day	1.0E-03	mg/kg-day	N/A	N/A	1.7E-04
	Chromium	4.1E+02	mg/kg	4.1E+02	mg/kg	M	3.1E-05	mg/kg-day	3.0E-03	mg/kg-day	N/A	N/A	1.0E-02
	Copper	9.3E+01	mg/kg	9.3E+01	mg/kg	M	7.1E-06	mg/kg-day	4.0E-02	mg/kg-day	N/A	N/A	1.8E-04
	Lead												
	Manganese	2.1E+02	mg/kg	2.1E+02	mg/kg	M	1.6E-05	mg/kg-day	7.0E-02	mg/kg-day	N/A	N/A	2.3E-04
	Mercury	7.1E-01	mg/kg	7.1E-01	mg/kg	M	5.4E-08	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	1.8E-04
	Vanadium	9.9E+01	mg/kg	9.9E+01	mg/kg	M	7.6E-06	mg/kg-day	9.0E-03	mg/kg-day	N/A	N/A	8.4E-04
	(Total)												2.2E-02
Dermal													
	Benzo(a)anthracene	3.8E+00	mg/kg	3.8E+00	mg/kg	M	6.0E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(a)pyrene	3.2E+00	mg/kg	3.2E+00	mg/kg	M	5.0E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(b)fluoranthene	6.0E+00	mg/kg	6.0E+00	mg/kg	M	9.6E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(k)fluoranthene	9.6E+00	mg/kg	9.6E+00	mg/kg	M	1.5E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	3.5E-01	mg/kg	3.5E-01	mg/kg	M	5.5E-08	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	2.7E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	1.2E+01	mg/kg	1.2E+01	mg/kg	M	1.9E-06	mg/kg-day	2.0E-02	mg/kg-day	N/A	N/A	9.3E-05
	Aroclor 1248	2.6E-01	mg/kg	2.6E-01	mg/kg	M	4.3E-08	mg/kg-day	2.0E-05	mg/kg-day	N/A	N/A	2.2E-03
	Arsenic	3.3E+01	mg/kg	3.3E+01	mg/kg	M	1.2E-06	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	4.0E-03
	Cadmium	2.2E+00	mg/kg	2.2E+00	mg/kg	M	2.6E-08	mg/kg-day	1.0E-05	mg/kg-day	N/A	N/A	2.6E-03
	(Total)												6.9E-03
												Total Hazard Index Across All Exposure Routes/Pathways	3E-02

(1) Medium-Specific (M) EPC selected for hazard calculation.
N/A = Not Applicable
EPC = Exposure Point Concentration
Hazard Quotient = Non-Cancer Intake / Reference Dose

TABLE C.3-7.22.R...
CALCULATION OF NON-CANCER ...S
REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: Wetland
Receptor Population: 4-Day Recreational User
Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion													
	Benzo(a)anthracene	3.8E+00	mg/kg	3.8E+00	mg/kg	M	7.2E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(a)pyrene	3.2E+00	mg/kg	3.2E+00	mg/kg	M	6.1E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(b)fluoranthene	6.0E+00	mg/kg	6.0E+00	mg/kg	M	1.1E-05	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(k)fluoranthene	9.6E+00	mg/kg	9.6E+00	mg/kg	M	1.8E-05	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	3.5E-01	mg/kg	3.5E-01	mg/kg	M	6.6E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	3.2E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	1.2E+01	mg/kg	1.2E+01	mg/kg	M	2.2E-05	mg/kg-day	2.0E-02	mg/kg-day	N/A	N/A	1.1E-03
	Aroclor 1248	2.6E-01	mg/kg	2.6E-01	mg/kg	M	5.0E-07	mg/kg-day	2.0E-05	mg/kg-day	N/A	N/A	2.5E-02
	Antimony	1.0E+00	mg/kg	1.0E+00	mg/kg	M	2.0E-06	mg/kg-day	4.0E-04	mg/kg-day	N/A	N/A	5.0E-03
	Arsenic	3.3E+01	mg/kg	3.3E+01	mg/kg	M	6.2E-05	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	2.1E-01
	Cadmium	2.2E+00	mg/kg	2.2E+00	mg/kg	M	4.1E-06	mg/kg-day	1.0E-03	mg/kg-day	N/A	N/A	4.1E-03
	Chromium	4.1E+02	mg/kg	4.1E+02	mg/kg	M	7.8E-04	mg/kg-day	3.0E-03	mg/kg-day	N/A	N/A	2.6E-01
	Copper	9.3E+01	mg/kg	9.3E+01	mg/kg	M	1.8E-04	mg/kg-day	4.0E-02	mg/kg-day	N/A	N/A	4.4E-03
	Lead												
	Manganese	2.1E+02	mg/kg	2.1E+02	mg/kg	M	4.0E-04	mg/kg-day	7.0E-02	mg/kg-day	N/A	N/A	5.7E-03
	Mercury	7.1E-01	mg/kg	7.1E-01	mg/kg	M	1.3E-06	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	4.5E-03
	Vanadium	9.9E+01	mg/kg	9.9E+01	mg/kg	M	1.9E-04	mg/kg-day	9.0E-03	mg/kg-day	N/A	N/A	2.1E-02
	(Total)												5.4E-01
Dermal													
	Benzo(a)anthracene	3.8E+00	mg/kg	3.8E+00	mg/kg	M	7.9E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(a)pyrene	3.2E+00	mg/kg	3.2E+00	mg/kg	M	6.6E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(b)fluoranthene	6.0E+00	mg/kg	6.0E+00	mg/kg	M	1.3E-05	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(k)fluoranthene	9.6E+00	mg/kg	9.6E+00	mg/kg	M	2.0E-05	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	3.5E-01	mg/kg	3.5E-01	mg/kg	M	7.3E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	3.5E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	1.2E+01	mg/kg	1.2E+01	mg/kg	M	2.4E-05	mg/kg-day	2.0E-02	mg/kg-day	N/A	N/A	1.2E-03
	Aroclor 1248	2.6E-01	mg/kg	2.6E-01	mg/kg	M	5.6E-07	mg/kg-day	2.0E-05	mg/kg-day	N/A	N/A	2.9E-02
	Arsenic	3.3E+01	mg/kg	3.3E+01	mg/kg	M	1.8E-05	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	5.2E-02
	Cadmium	2.2E+00	mg/kg	2.2E+00	mg/kg	M	3.5E-07	mg/kg-day	1.0E-05	mg/kg-day	N/A	N/A	3.5E-02
	(Total)												1.2E-01
										Total Hazard Index Across All Exposure Routes/Pathways			7E-01

(1) Medium-Specific (M) EPC selected for hazard calculation.
N/A = Not Applicable
EPC = Exposure Point Concentration
Hazard Quotient = Non-Cancer Intake / Reference Dose

TABLE [illegible]
CALCULATION OF NON-C [illegible] HAZARDS
CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: Welland
Receptor Population: 4-Day Recreational User
Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Benzo(a)anthracene	3.8E+00	mg/kg	3.8E+00	mg/kg	M	2.7E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(a)pyrene	3.2E+00	mg/kg	3.2E+00	mg/kg	M	2.3E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(b)fluoranthene	6.0E+00	mg/kg	6.0E+00	mg/kg	M	4.3E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(k)fluoranthene	9.6E+00	mg/kg	9.6E+00	mg/kg	M	6.8E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	3.5E-01	mg/kg	3.5E-01	mg/kg	M	2.5E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	1.2E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	1.2E+01	mg/kg	1.2E+01	mg/kg	M	8.3E-06	mg/kg-day	2.0E-02	mg/kg-day	N/A	N/A	4.2E-04
	Aroclor 1248	2.6E-01	mg/kg	2.6E-01	mg/kg	M	1.9E-07	mg/kg-day	2.0E-05	mg/kg-day	N/A	N/A	9.3E-03
	Antimony	1.0E+00	mg/kg	1.0E+00	mg/kg	M	7.5E-07	mg/kg-day	4.0E-04	mg/kg-day	N/A	N/A	1.9E-03
	Arsenic	3.3E+01	mg/kg	3.3E+01	mg/kg	M	2.3E-05	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	7.8E-02
	Cadmium	2.2E+00	mg/kg	2.2E+00	mg/kg	M	1.5E-06	mg/kg-day	1.0E-03	mg/kg-day	N/A	N/A	1.5E-03
	Chromium	4.1E+02	mg/kg	4.1E+02	mg/kg	M	2.9E-04	mg/kg-day	3.0E-03	mg/kg-day	N/A	N/A	9.7E-02
	Copper	9.3E+01	mg/kg	9.3E+01	mg/kg	M	6.7E-05	mg/kg-day	4.0E-02	mg/kg-day	N/A	N/A	1.7E-03
	Lead												
	Manganese	2.1E+02	mg/kg	2.1E+02	mg/kg	M	1.5E-04	mg/kg-day	7.0E-02	mg/kg-day	N/A	N/A	2.1E-03
	Mercury	7.1E-01	mg/kg	7.1E-01	mg/kg	M	5.1E-07	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	1.7E-03
	Vanadium	9.9E+01	mg/kg	9.9E+01	mg/kg	M	7.0E-05	mg/kg-day	9.0E-03	mg/kg-day	N/A	N/A	7.8E-03
	(Total)												2.0E-01
Dermal	Benzo(a)anthracene	3.8E+00	mg/kg	3.8E+00	mg/kg	M	5.9E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(a)pyrene	3.2E+00	mg/kg	3.2E+00	mg/kg	M	5.0E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(b)fluoranthene	6.0E+00	mg/kg	6.0E+00	mg/kg	M	9.4E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(k)fluoranthene	9.6E+00	mg/kg	9.6E+00	mg/kg	M	1.5E-05	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	3.5E-01	mg/kg	3.5E-01	mg/kg	M	5.4E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	2.6E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	1.2E+01	mg/kg	1.2E+01	mg/kg	M	1.8E-05	mg/kg-day	2.0E-02	mg/kg-day	N/A	N/A	9.1E-04
	Aroclor 1248	2.6E-01	mg/kg	2.6E-01	mg/kg	M	4.4E-07	mg/kg-day	2.0E-05	mg/kg-day	N/A	N/A	2.2E-02
	Arsenic	3.3E+01	mg/kg	3.3E+01	mg/kg	M	1.2E-05	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	3.9E-02
	Cadmium	2.2E+00	mg/kg	2.2E+00	mg/kg	M	2.6E-07	mg/kg-day	1.0E-05	mg/kg-day	N/A	N/A	2.6E-02
	(Total)												6.5E-02
												Total Hazard Index Across All Exposure Routes/Pathways	3E-01

(1) Medium-Specific (M) EPC selected for hazard calculation.
N/A = Not Applicable
EPC = Exposure Point Concentration
Hazard Quotient = Non-Cancer Intake / Reference Dose

TABLE C.3-7.23.RME
CALCULATION OF NON-CANCER .RDS
REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: Pond/Lake
Receptor Population: 1-Day Recreational User
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion													
	Antimony	1.4E+00	mg/kg	1.4E+00	mg/kg	M	7.1E-08	mg/kg-day	4.0E-04	mg/kg-day	N/A	N/A	1.8E-04
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	1.5E-06	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	5.1E-03
	Cadmium	2.9E+00	mg/kg	2.9E+00	mg/kg	M	1.5E-07	mg/kg-day	1.0E-03	mg/kg-day	N/A	N/A	1.5E-04
	Chromium	1.6E+02	mg/kg	1.6E+02	mg/kg	M	7.9E-06	mg/kg-day	3.0E-03	mg/kg-day	N/A	N/A	2.6E-03
	Copper	6.6E+01	mg/kg	6.6E+01	mg/kg	M	3.3E-06	mg/kg-day	4.0E-02	mg/kg-day	N/A	N/A	8.4E-05
	Lead												
	Manganese	8.4E+02	mg/kg	8.4E+02	mg/kg	M	4.3E-05	mg/kg-day	7.0E-02	mg/kg-day	N/A	N/A	6.1E-04
	Mercury	3.5E-01	mg/kg	3.5E-01	mg/kg	M	1.8E-08	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	5.9E-05
	Vanadium	5.2E+01	mg/kg	5.2E+01	mg/kg	M	2.6E-06	mg/kg-day	9.0E-03	mg/kg-day	N/A	N/A	2.9E-04
	(Total)												9.1E-03
Dermal													
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	3.8E-07	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	1.2E-03
	Cadmium	2.9E+00	mg/kg	2.9E+00	mg/kg	M	1.2E-08	mg/kg-day	1.0E-05	mg/kg-day	N/A	N/A	1.2E-03
	(Total)												2.4E-03
										Total Hazard Index Across All Exposure Routes/Pathways			1E-02

(1) Medium-Specific (M) EPC selected for hazard calculation.
N/A = Not Applicable
EPC = Exposure Point Concentration
Hazard Quotient = Non-Cancer Intake / Reference Dose

TABLE C.(T
CALCULATION OF NON- .CER HAZARDS
CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: Pond/Lake
Receptor Population: 1-Day Recreational User
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion													
	Antimony	1.4E+00	mg/kg	1.4E+00	mg/kg	M	3.6E-08	mg/kg-day	4.0E-04	mg/kg-day	N/A	N/A	8.9E-05
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	7.6E-07	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	2.5E-03
	Cadmium	2.9E+00	mg/kg	2.9E+00	mg/kg	M	7.4E-08	mg/kg-day	1.0E-03	mg/kg-day	N/A	N/A	7.4E-05
	Chromium	1.6E+02	mg/kg	1.6E+02	mg/kg	M	3.9E-06	mg/kg-day	3.0E-03	mg/kg-day	N/A	N/A	1.3E-03
	Copper	6.6E+01	mg/kg	6.6E+01	mg/kg	M	1.7E-06	mg/kg-day	4.0E-02	mg/kg-day	N/A	N/A	4.2E-05
	Lead												
	Manganese	8.4E+02	mg/kg	8.4E+02	mg/kg	M	2.1E-05	mg/kg-day	7.0E-02	mg/kg-day	N/A	N/A	3.0E-04
	Mercury	3.5E-01	mg/kg	3.5E-01	mg/kg	M	8.9E-09	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	3.0E-05
	Vanadium	5.2E+01	mg/kg	5.2E+01	mg/kg	M	1.3E-06	mg/kg-day	9.0E-03	mg/kg-day	N/A	N/A	1.5E-04
	(Total)												4.5E-03
Dermal													
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	3.6E-07	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	1.2E-03
	Cadmium	2.9E+00	mg/kg	2.9E+00	mg/kg	M	1.2E-06	mg/kg-day	1.0E-05	mg/kg-day	N/A	N/A	1.2E-03
	(Total)												2.4E-03
												Total Hazard Index Across All Exposure Routes/Pathways	7E-03

(1) Medium-Specific (M) EPC selected for hazard calculation.
N/A = Not Applicable
EPC = Exposure Point Concentration
Hazard Quotient = Non-Cancer Intake / Reference Dose

TABLE C.3-7.24.RME
CALCULATION OF NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: Pond/Lake
Receptor Population: 1-Day Recreational User
Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion													
	Antimony	1.4E+00	mg/kg	1.4E+00	mg/kg	M	6.6E-07	mg/kg-day	4.0E-04	mg/kg-day	N/A	N/A	1.7E-03
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	1.4E-05	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	4.7E-02
	Cadmium	2.9E+00	mg/kg	2.9E+00	mg/kg	M	1.4E-06	mg/kg-day	1.0E-03	mg/kg-day	N/A	N/A	1.4E-03
	Chromium	1.6E+02	mg/kg	1.6E+02	mg/kg	M	7.4E-05	mg/kg-day	3.0E-03	mg/kg-day	N/A	N/A	2.5E-02
	Copper	6.6E+01	mg/kg	6.6E+01	mg/kg	M	3.1E-05	mg/kg-day	4.0E-02	mg/kg-day	N/A	N/A	7.8E-04
	Lead												
	Manganese	8.4E+02	mg/kg	8.4E+02	mg/kg	M	4.0E-04	mg/kg-day	7.0E-02	mg/kg-day	N/A	N/A	5.7E-03
	Mercury	3.5E-01	mg/kg	3.5E-01	mg/kg	M	1.7E-07	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	5.5E-04
	Vanadium	5.2E+01	mg/kg	5.2E+01	mg/kg	M	2.4E-05	mg/kg-day	9.0E-03	mg/kg-day	N/A	N/A	2.7E-03
	(Total)												8.5E-02
Dermal													
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	3.6E-06	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	1.2E-02
	Cadmium	2.9E+00	mg/kg	2.9E+00	mg/kg	M	1.2E-07	mg/kg-day	1.0E-05	mg/kg-day	N/A	N/A	1.2E-02
	(Total)												2.3E-02
										Total Hazard Index Across All Exposure Routes/Pathways			1E-01

(1) Medium-Specific (M) EPC selected for hazard calculation.
N/A = Not Applicable
EPC = Exposure Point Concentration
Hazard Quotient = Non-Cancer Intake / Reference Dose

TABLE C.3-7
CALCULATION OF NON-CANCER HAZARDS
CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: Pond/Lake
Receptor Population: 1-Day Recreational User
Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion													
	Antimony	1.4E+00	mg/kg	1.4E+00	mg/kg	M	3.3E-07	mg/kg-day	4.0E-04	mg/kg-day	N/A	N/A	8.3E-04
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	7.1E-06	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	2.4E-02
	Cadmium	2.9E+00	mg/kg	2.9E+00	mg/kg	M	6.9E-07	mg/kg-day	1.0E-03	mg/kg-day	N/A	N/A	6.9E-04
	Chromium	1.6E+02	mg/kg	1.6E+02	mg/kg	M	3.7E-05	mg/kg-day	3.0E-03	mg/kg-day	N/A	N/A	1.2E-02
	Copper	6.6E+01	mg/kg	6.6E+01	mg/kg	M	1.6E-05	mg/kg-day	4.0E-02	mg/kg-day	N/A	N/A	3.9E-04
	Lead												
	Manganese	8.4E+02	mg/kg	8.4E+02	mg/kg	M	2.0E-04	mg/kg-day	7.0E-02	mg/kg-day	N/A	N/A	2.8E-03
	Mercury	3.5E-01	mg/kg	3.5E-01	mg/kg	M	8.3E-08	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	2.8E-04
	Vanadium	5.2E+01	mg/kg	5.2E+01	mg/kg	M	1.2E-05	mg/kg-day	9.0E-03	mg/kg-day	N/A	N/A	1.4E-03
	(Total)												4.2E-02
Dermal													
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	3.6E-06	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	1.2E-02
	Cadmium	2.9E+00	mg/kg	2.9E+00	mg/kg	M	1.2E-07	mg/kg-day	1.0E-05	mg/kg-day	N/A	N/A	1.2E-02
	(Total)												2.3E-02
Total Hazard Index Across All Exposure Routes/Pathways													7E-02

(1) Medium-Specific (M) EPC selected for hazard calculation.
N/A = Not Applicable
EPC = Exposure Point Concentration
Hazard Quotient = Non-Cancer Intake / Reference Dose

TABLE C.3-7.25.RME
CALCULATION OF NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: Pond/Lake
Receptor Population: 4-Day Recreational User
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion													
	Antimony	1.4E+00	mg/kg	1.4E+00	mg/kg	M	2.8E-07	mg/kg-day	4.0E-04	mg/kg-day	N/A	N/A	7.1E-04
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	6.1E-06	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	2.0E-02
	Cadmium	2.9E+00	mg/kg	2.9E+00	mg/kg	M	5.9E-07	mg/kg-day	1.0E-03	mg/kg-day	N/A	N/A	5.9E-04
	Chromium	1.6E+02	mg/kg	1.6E+02	mg/kg	M	3.2E-05	mg/kg-day	3.0E-03	mg/kg-day	N/A	N/A	1.1E-02
	Copper	6.6E+01	mg/kg	6.6E+01	mg/kg	M	1.3E-05	mg/kg-day	4.0E-02	mg/kg-day	N/A	N/A	3.3E-04
	Lead												
	Manganese	8.4E+02	mg/kg	8.4E+02	mg/kg	M	1.7E-04	mg/kg-day	7.0E-02	mg/kg-day	N/A	N/A	2.4E-03
	Mercury	3.5E-01	mg/kg	3.5E-01	mg/kg	M	7.1E-08	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	2.4E-04
	Vanadium	5.2E+01	mg/kg	5.2E+01	mg/kg	M	1.0E-05	mg/kg-day	9.0E-03	mg/kg-day	N/A	N/A	1.2E-03
	(Total)												3.6E-02
Dermal													
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	1.5E-06	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	4.9E-03
	Cadmium	2.9E+00	mg/kg	2.9E+00	mg/kg	M	4.7E-08	mg/kg-day	1.0E-05	mg/kg-day	N/A	N/A	4.7E-03
	(Total)												9.6E-03
										Total Hazard Index Across All Exposure Routes/Pathways			5E-02

(1) Medium-Specific (M) EPC selected for hazard calculation.
N/A = Not Applicable
EPC = Exposure Point Concentration
Hazard Quotient = Non-Cancer Intake / Reference Dose

TABLE C.3-7.
CALCULATION OF NON-CANCER HAZARDS
CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: Pond/Lake
Receptor Population: 4-Day Recreational User
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion													
	Antimony	1.4E+00	mg/kg	1.4E+00	mg/kg	M	1.1E-07	mg/kg-day	4.0E-04	mg/kg-day	N/A	N/A	2.7E-04
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	2.3E-06	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	7.6E-03
	Cadmium	2.9E+00	mg/kg	2.9E+00	mg/kg	M	2.2E-07	mg/kg-day	1.0E-03	mg/kg-day	N/A	N/A	2.2E-04
	Chromium	1.6E+02	mg/kg	1.6E+02	mg/kg	M	1.2E-05	mg/kg-day	3.0E-03	mg/kg-day	N/A	N/A	3.9E-03
	Copper	6.6E+01	mg/kg	6.6E+01	mg/kg	M	5.0E-06	mg/kg-day	4.0E-02	mg/kg-day	N/A	N/A	1.3E-04
	Lead												
	Manganese	8.4E+02	mg/kg	8.4E+02	mg/kg	M	6.4E-05	mg/kg-day	7.0E-02	mg/kg-day	N/A	N/A	9.1E-04
	Mercury	3.5E-01	mg/kg	3.5E-01	mg/kg	M	2.7E-08	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	8.9E-05
	Vanadium	5.2E+01	mg/kg	5.2E+01	mg/kg	M	3.9E-06	mg/kg-day	9.0E-03	mg/kg-day	N/A	N/A	4.4E-04
	(Total)												1.4E-02
Dermal													
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	1.1E-06	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	3.6E-03
	Cadmium	2.9E+00	mg/kg	2.9E+00	mg/kg	M	3.5E-08	mg/kg-day	1.0E-05	mg/kg-day	N/A	N/A	3.5E-03
	(Total)												7.2E-03
										Total Hazard Index Across All Exposure Routes/Pathways			2E-02

(1) Medium-Specific (M) EPC selected for hazard calculation.
N/A = Not Applicable
EPC = Exposure Point Concentration
Hazard Quotient = Non-Cancer Intake / Reference Dose

TABLE C.3-7.26.RM
CALCULATION OF NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: Pond/Lake
Receptor Population: 4-Day Recreational User
Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion													
	Antimony	1.4E+00	mg/kg	1.4E+00	mg/kg	M	2.7E-06	mg/kg-day	4.0E-04	mg/kg-day	N/A	N/A	6.6E-03
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	5.7E-05	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	1.9E-01
	Cadmium	2.9E+00	mg/kg	2.9E+00	mg/kg	M	5.5E-06	mg/kg-day	1.0E-03	mg/kg-day	N/A	N/A	5.5E-03
	Chromium	1.6E+02	mg/kg	1.6E+02	mg/kg	M	2.9E-04	mg/kg-day	3.0E-03	mg/kg-day	N/A	N/A	9.8E-02
	Copper	6.6E+01	mg/kg	6.6E+01	mg/kg	M	1.2E-04	mg/kg-day	4.0E-02	mg/kg-day	N/A	N/A	3.1E-03
	Lead												
	Manganese	8.4E+02	mg/kg	8.4E+02	mg/kg	M	1.6E-03	mg/kg-day	7.0E-02	mg/kg-day	N/A	N/A	2.3E-02
	Mercury	3.5E-01	mg/kg	3.5E-01	mg/kg	M	6.6E-07	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	2.2E-03
	Vanadium	5.2E+01	mg/kg	5.2E+01	mg/kg	M	9.8E-05	mg/kg-day	9.0E-03	mg/kg-day	N/A	N/A	1.1E-02
	(Total)												3.4E-01
Dermal													
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	1.4E-05	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	4.8E-02
	Cadmium	2.9E+00	mg/kg	2.9E+00	mg/kg	M	4.6E-07	mg/kg-day	1.0E-05	mg/kg-day	N/A	N/A	4.6E-02
	(Total)												9.4E-02
												Total Hazard Index Across All Exposure Routes/Pathways	4E-01

(1) Medium-Specific (M) EPC selected for hazard calculation.
N/A = Not Applicable
EPC = Exposure Point Concentration
Hazard Quotient = Non-Cancer Intake / Reference Dose

TABLE C.3
CALCULATION OF NON-CANCER HAZARDS
CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: Pond/Lake
Receptor Population: 4-Day Recreational User
Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion													
	Antimony	1.4E+00	mg/kg	1.4E+00	mg/kg	M	1.0E-06	mg/kg-day	4.0E-04	mg/kg-day	N/A	N/A	2.5E-03
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	2.1E-05	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	7.1E-02
	Cadmium	2.9E+00	mg/kg	2.9E+00	mg/kg	M	2.1E-06	mg/kg-day	1.0E-03	mg/kg-day	N/A	N/A	2.1E-03
	Chromium	1.6E+02	mg/kg	1.6E+02	mg/kg	M	1.1E-04	mg/kg-day	3.0E-03	mg/kg-day	N/A	N/A	3.7E-02
	Copper	6.6E+01	mg/kg	6.6E+01	mg/kg	M	4.7E-05	mg/kg-day	4.0E-02	mg/kg-day	N/A	N/A	1.2E-03
	Lead												
	Manganese	8.4E+02	mg/kg	8.4E+02	mg/kg	M	6.0E-04	mg/kg-day	7.0E-02	mg/kg-day	N/A	N/A	8.5E-03
	Mercury	3.5E-01	mg/kg	3.5E-01	mg/kg	M	2.5E-07	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	8.3E-04
	Vanadium	5.2E+01	mg/kg	5.2E+01	mg/kg	M	3.7E-05	mg/kg-day	9.0E-03	mg/kg-day	N/A	N/A	4.1E-03
	(Total)												1.3E-01
Dermal													
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	1.1E-05	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	3.6E-02
	Cadmium	2.9E+00	mg/kg	2.9E+00	mg/kg	M	3.5E-07	mg/kg-day	1.0E-05	mg/kg-day	N/A	N/A	3.5E-02
	(Total)												7.0E-02
Total Hazard Index Across All Exposure Routes/Pathways													2E-01

(1) Medium-Specific (M) EPC selected for hazard calculation.
N/A = Not Applicable
EPC = Exposure Point Concentration
Hazard Quotient = Non-Cancer Intake / Reference Dose

TABLE C.3-7
CALCULATION OF NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Surface Water
Exposure Medium: Fish Tissue
Exposure Point: Fillet, Reference Locations
Receptor Population: Recreational User
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion													
	4,4'-DDE	3.2E-03	mg/kg	3.2E-03	mg/kg	M	3.0E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Aroclor-1260	6.3E-02	mg/kg	6.3E-02	mg/kg	M	6.0E-06	mg/kg-day	2.0E-05	mg/kg-day	N/A	N/A	3.0E-01
	Mercury	5.3E-01	mg/kg	5.3E-01	mg/kg	M	5.1E-05	mg/kg-day	1.0E-04	mg/kg-day	N/A	N/A	5.1E-01
	Selenium	6.4E-01	mg/kg	6.4E-01	mg/kg	M	6.2E-05	mg/kg-day	5.0E-03	mg/kg-day	N/A	N/A	1.2E-02
	(Total)												8.2E-01
												Total Hazard Index Across All Exposure Routes/Pathways	8E-01

(1) Medium-Specific (M) EPC selected for hazard calculation.
- - Not detected at this exposure point.
N/A = Not Applicable
EPC = Exposure Point Concentration
Hazard Quotient = Non-Cancer Intake / Reference Dose

TABLE C.3-7
CALCULATION OF NON-CANCER HAZARDS
CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Surface Water
Exposure Medium: Fish Tissue
Exposure Point: Fillet, Reference Locations
Receptor Population: Recreational User
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion													
	4,4'-DDE	3.2E-03	mg/kg	3.2E-03	mg/kg	M	1.5E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Aroclor-1260	6.3E-02	mg/kg	6.3E-02	mg/kg	M	3.0E-06	mg/kg-day	2.0E-05	mg/kg-day	N/A	N/A	1.5E-01
	Mercury	5.3E-01	mg/kg	5.3E-01	mg/kg	M	2.6E-05	mg/kg-day	1.0E-04	mg/kg-day	N/A	N/A	2.6E-01
	Selenium	6.4E-01	mg/kg	6.4E-01	mg/kg	M	3.1E-05	mg/kg-day	5.0E-03	mg/kg-day	N/A	N/A	6.2E-03
	(Total)												4.1E-01
												Total Hazard Index Across All Exposure Routes/Pathways	4E-01

(1) Medium-Specific (M) EPC selected for hazard calculation.
- - Not detected at this exposure point.
N/A = Not Applicable
EPC = Exposure Point Concentration
Hazard Quotient = Non-Cancer Intake / Reference Dose

TABLE C.3-7
CALCULATION OF NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Surface Water
Exposure Medium: Fish Tissue
Exposure Point: Fillet, Reference Locations
Receptor Population: Recreational User
Receptor Age: Older Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion													
	4,4'-DDE	3.2E-03	mg/kg	3.2E-03	mg/kg	M	3.4E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Aroclor-1260	6.3E-02	mg/kg	6.3E-02	mg/kg	M	6.8E-06	mg/kg-day	2.0E-05	mg/kg-day	N/A	N/A	3.4E-01
	Mercury	5.3E-01	mg/kg	5.3E-01	mg/kg	M	5.8E-05	mg/kg-day	1.0E-04	mg/kg-day	N/A	N/A	5.8E-01
	Selenium	6.4E-01	mg/kg	6.4E-01	mg/kg	M	7.0E-05	mg/kg-day	5.0E-03	mg/kg-day	N/A	N/A	1.4E-02
	(Total)												9.3E-01
												Total Hazard Index Across All Exposure Routes/Pathways	9E-01

(1) Medium-Specific (M) EPC selected for hazard calculation.
-- Not detected at this exposure point.
N/A = Not Applicable
EPC = Exposure Point Concentration
Hazard Quotient = Non-Cancer Intake / Reference Dose

TABLE C.3-7
CALCULATION OF NON-CANCER HAZARDS
CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Surface Water
Exposure Medium: Fish Tissue
Exposure Point: Fillet, Reference Locations
Receptor Population: Recreational User
Receptor Age: Older Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion													
	4,4'-DDE	3.2E-03	mg/kg	3.2E-03	mg/kg	M	1.7E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Aroclor-1260	6.3E-02	mg/kg	6.3E-02	mg/kg	M	3.4E-06	mg/kg-day	2.0E-05	mg/kg-day	N/A	N/A	1.7E-01
	Mercury	5.3E-01	mg/kg	5.3E-01	mg/kg	M	2.9E-05	mg/kg-day	1.0E-04	mg/kg-day	N/A	N/A	2.9E-01
	Selenium	6.4E-01	mg/kg	6.4E-01	mg/kg	M	3.5E-05	mg/kg-day	5.0E-03	mg/kg-day	N/A	N/A	7.0E-03
	(Total)												4.7E-01
												Total Hazard Index Across All Exposure Routes/Pathways	5E-01

(1) Medium-Specific (M) EPC selected for hazard calculation.
- - Not detected at this exposure point.
N/A = Not Applicable
EPC = Exposure Point Concentration
Hazard Quotient = Non-Cancer Intake / Reference Dose

TABLE C.3-8.1.RME
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Surface Water
Exposure Medium: Surface Water
Exposure Point: River/Stream
Receptor Population: 1-Day Recreational User
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Dermal											
	Arsenic	1.2E+01	µg/L	1.2E+01	µg/L	M	2.4E-08	mg/kg-day	1.5E+00	$(mg/kg-day)^{-1}$	3.6E-08
	Lead										
	Manganese	1.4E+03	µg/L	1.4E+03	µg/L	M	2.8E-06	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	Mercury	9.9E-02	µg/L	9.9E-02	µg/L	M	2.0E-10	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	(Total)										3.6E-08
										Total Risk Across All Exposure Routes/Pathways	4E-08

(1) Medium-Specific (M) EPC selected for risk calculation.
- - Not detected at this exposure point.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.1.CT
CALCULATION OF CANCER RISKS
CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Surface Water
Exposure Medium: Surface Water
Exposure Point: River/Stream
Receptor Population: 1-Day Recreational User
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Dermal											
	Arsenic	1.2E+01	µg/L	1.2E+01	µg/L	M	3.5E-09	mg/kg-day	1.5E+00	$(mg/kg\text{-}day)^{-1}$	5.3E-09
	Lead										
	Manganese	1.4E+03	µg/L	1.4E+03	µg/L	M	4.0E-07	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	Mercury	9.9E-02	µg/L	9.9E-02	µg/L	M	2.9E-11	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	(Total)										5.3E-09
										Total Risk Across All Exposure Routes/Pathways	5E-09

(1) Medium-Specific (M) EPC selected for risk calculation.
- - Not detected at this exposure point.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.2.RME
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Surface Water
Exposure Medium: Surface Water
Exposure Point: River/Stream
Receptor Population: 1-Day Recreational User
Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Dermal											
	Arsenic	1.2E+01	µg/L	1.2E+01	µg/L	M	1.4E-08	mg/kg-day	1.5E+00	$(mg/kg-day)^{-1}$	2.1E-08
	Lead										
	Manganese	1.4E+03	µg/L	1.4E+03	µg/L	M	1.6E-06	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	Mercury	9.9E-02	µg/L	9.9E-02	µg/L	M	1.1E-10	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	(Total)										2.1E-08
										Total Risk Across All Exposure Routes/Pathways	2E-08

(1) Medium-Specific (M) EPC selected for risk calculation.
- - Not detected at this exposure point.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.2.CT
CALCULATION OF CANCER RISKS
CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Surface Water
Exposure Medium: Surface Water
Exposure Point: River/Stream
Receptor Population: 1-Day Recreational User
Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Dermal											
	Arsenic	1.2E+01	µg/L	1.2E+01	µg/L	M	2.3E-09	mg/kg-day	1.5E+00	$(mg/kg-day)^{-1}$	3.5E-09
	Lead										
	Manganese	1.4E+03	µg/L	1.4E+03	µg/L	M	2.7E-07	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	Mercury	9.9E-02	µg/L	9.9E-02	µg/L	M	1.9E-11	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	(Total)										3.5E-09
										Total Risk Across All Exposure Routes/Pathways	3E-09

(1) Medium-Specific (M) EPC selected for risk calculation.
- - Not detected at this exposure point.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.3.RME
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Surface Water
Exposure Medium: Surface Water
Exposure Point: River/Stream
Receptor Population: 4-Day Recreational User
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Dermal	Arsenic	1.2E+01	µg/L	1.2E+01	µg/L	M	9.7E-08	mg/kg-day	1.5E+00	$(mg/kg-day)^{-1}$	1.5E-07
	Lead										
	Manganese	1.4E+03	µg/L	1.4E+03	µg/L	M	1.1E-05	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	Mercury (Total)	9.9E-02	µg/L	9.9E-02	µg/L	M	7.9E-10	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
											1.5E-07
										Total Risk Across All Exposure Routes/Pathways	1E-07

(1) Medium-Specific (M) EPC selected for risk calculation.
- - Not detected at this exposure point.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.3.CT
CALCULATION OF CANCER RISKS
CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Surface Water
Exposure Medium: Surface Water
Exposure Point: River/Stream
Receptor Population: 4-Day Recreational User
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Dermal											
	Arsenic	1.2E+01	µg/L	1.2E+01	µg/L	M	1.1E-08	mg/kg-day	1.5E+00	$(mg/kg-day)^{-1}$	1.6E-08
	Lead										
	Manganese	1.4E+03	µg/L	1.4E+03	µg/L	M	1.2E-06	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	Mercury	9.9E-02	µg/L	9.9E-02	µg/L	M	8.6E-11	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	(Total)										1.6E-08
										Total Risk Across All Exposure Routes/Pathways	2E-08

(1) Medium-Specific (M) EPC selected for risk calculation.
- - Not detected at this exposure point.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.4.RME
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Surface Water
Exposure Medium: Surface Water
Exposure Point: River/Stream
Receptor Population: 4-Day Recreational User
Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Dermal	Arsenic	1.2E+01	µg/L	1.2E+01	µg/L	M	5.5E-08	mg/kg-day	1.5E+00	$(mg/kg-day)^{-1}$	8.3E-08
	Lead										
	Manganese	1.4E+03	µg/L	1.4E+03	µg/L	M	6.4E-06	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	Mercury	9.9E-02	µg/L	9.9E-02	µg/L	M	4.5E-10	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	(Total)										8.3E-08
										Total Risk Across All Exposure Routes/Pathways	8E-08

(1) Medium-Specific (M) EPC selected for risk calculation.
- - Not detected at this exposure point.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.4.CT
CALCULATION OF CANCER RISKS
CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Surface Water
Exposure Medium: Surface Water
Exposure Point: River/Stream
Receptor Population: 4-Day Recreational User
Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Dermal	Arsenic	1.2E+01	µg/L	1.2E+01	µg/L	M	6.9E-09	mg/kg-day	1.5E+00	$(mg/kg-day)^{-1}$	1.0E-08
	Lead										
	Manganese	1.4E+03	µg/L	1.4E+03	µg/L	M	8.0E-07	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	Mercury	9.9E-02	µg/L	9.9E-02	µg/L	M	5.6E-11	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	(Total)										1.0E-08
										Total Risk Across All Exposure Routes/Pathways	1E-08

(1) Medium-Specific (M) EPC selected for risk calculation.
- - Not detected at this exposure point.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.5.RME
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Surface Water
Exposure Medium: Surface Water
Exposure Point: Wetland
Receptor Population: 1-Day Recreational User
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Dermal	Arsenic	3.2E+00	µg/L	3.2E+00	µg/L	M	6.4E-09	mg/kg-day	1.5E+00	$(mg/kg\text{-}day)^{-1}$	9.5E-09
	Lead										
	Manganese	5.2E+02	µg/L	5.2E+02	µg/L	M	1.0E-06	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	Mercury	1.3E-01	µg/L	1.3E-01	µg/L	M	2.6E-10	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	(Total)										9.5E-09
										Total Risk Across All Exposure Routes/Pathways	1E-08

(1) Medium-Specific (M) EPC selected for risk calculation.
- - Not detected at this exposure point.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.5.CT
CALCULATION OF CANCER RISKS
CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Surface Water
Exposure Medium: Surface Water
Exposure Point: Wetland
Receptor Population: 1-Day Recreational User
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Dermal	Arsenic	3.2E+00	µg/L	3.2E+00	µg/L	M	9.3E-10	mg/kg-day	1.5E+00	$(mg/kg-day)^{-1}$	1.4E-09
	Lead										
	Manganese	5.2E+02	µg/L	5.2E+02	µg/L	M	1.5E-07	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	Mercury	1.3E-01	µg/L	1.3E-01	µg/L	M	3.8E-11	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	(Total)										1.4E-09
										Total Risk Across All Exposure Routes/Pathways	1E-09

(1) Medium-Specific (M) EPC selected for risk calculation.
- - Not detected at this exposure point.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.6.RME
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Surface Water
Exposure Medium: Surface Water
Exposure Point: Wetland
Receptor Population: 1-Day Recreational User
Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Dermal	Arsenic	3.2E+00	µg/L	3.2E+00	µg/L	M	3.6E-09	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	5.5E-09
	Lead	5.2E+02	µg/L	5.2E+02	µg/L	M	5.9E-07	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Manganese	1.3E-01	µg/L	1.3E-01	µg/L	M	1.5E-10	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Mercury										
	(Total)										5.5E-09
										Total Risk Across All Exposure Routes/Pathways	5E-09

(1) Medium-Specific (M) EPC selected for risk calculation.
- - Not detected at this exposure point.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.6.CT
CALCULATION OF CANCER RISKS
CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Surface Water
Exposure Medium: Surface Water
Exposure Point: Wetland
Receptor Population: 1-Day Recreational User
Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Dermal	Arsenic	3.2E+00	µg/L	3.2E+00	µg/L	M	6.1E-10	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	9.1E-10
	Lead										
	Manganese	5.2E+02	µg/L	5.2E+02	µg/L	M	9.9E-08	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Mercury	1.3E-01	µg/L	1.3E-01	µg/L	M	2.5E-11	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	(Total)										9.1E-10
										Total Risk Across All Exposure Routes/Pathways	9E-10

(1) Medium-Specific (M) EPC selected for risk calculation.
- - Not detected at this exposure point.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.7.RME
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Surface Water
Exposure Medium: Surface Water
Exposure Point: Wetland
Receptor Population: 4-Day Recreational User
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Dermal											
	Arsenic	3.2E+00	µg/L	3.2E+00	µg/L	M	2.5E-08	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	3.8E-08
	Lead										
	Manganese	5.2E+02	µg/L	5.2E+02	µg/L	M	4.1E-06	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Mercury	1.3E-01	µg/L	1.3E-01	µg/L	M	1.0E-09	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	(Total)										3.8E-08
										Total Risk Across All Exposure Routes/Pathways	4E-08

(1) Medium-Specific (M) EPC selected for risk calculation.
- - Not detected at this exposure point.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.7.CT
CALCULATION OF CANCER RISKS
CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Surface Water
Exposure Medium: Surface Water
Exposure Point: Wetland
Receptor Population: 4-Day Recreational User
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Dermal											
	Arsenic	3.2E+00	µg/L	3.2E+00	µg/L	M	2.8E-09	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	4.2E-09
	Lead										
	Manganese	5.2E+02	µg/L	5.2E+02	µg/L	M	4.5E-07	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Mercury	1.3E-01	µg/L	1.3E-01	µg/L	M	1.1E-10	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	(Total)										4.2E-09
										Total Risk Across All Exposure Routes/Pathways	4E-09

(1) Medium-Specific (M) EPC selected for risk calculation.
- - Not detected at this exposure point.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.8.RME
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Surface Water
Exposure Medium: Surface Water
Exposure Point: Wetland
Receptor Population: 4-Day Recreational User
Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Dermal	Arsenic	3.2E+00	µg/L	3.2E+00	µg/L	M	1.5E-08	mg/kg-day	1.5E+00	$(mg/kg-day)^{-1}$	2.2E-08
	Lead										
	Manganese	5.2E+02	µg/L	5.2E+02	µg/L	M	2.4E-06	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	Mercury	1.3E-01	µg/L	1.3E-01	µg/L	M	5.9E-10	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	(Total)										2.2E-08
										Total Risk Across All Exposure Routes/Pathways	2E-08

(1) Medium-Specific (M) EPC selected for risk calculation.
- - Not detected at this exposure point.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.8.CT
CALCULATION OF CANCER RISKS
CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Surface Water
Exposure Medium: Surface Water
Exposure Point: Wetland
Receptor Population: 4-Day Recreational User
Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Dermal											
	Arsenic	3.2E+00	µg/L	3.2E+00	µg/L	M	1.8E-09	mg/kg-day	1.5E+00	$(mg/kg\text{-}day)^{-1}$	2.7E-09
	Lead										
	Manganese	5.2E+02	µg/L	5.2E+02	µg/L	M	3.0E-07	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	Mercury	1.3E-01	µg/L	1.3E-01	µg/L	M	7.4E-11	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	(Total)										2.7E-09
										Total Risk Across All Exposure Routes/Pathways	3E-09

(1) Medium-Specific (M) EPC selected for risk calculation.
- - Not detected at this exposure point.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8,9.RME
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Surface Water
Exposure Medium: Surface Water
Exposure Point: Pond/Lake
Receptor Population: Recreational User
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	bis(2-Ethylhexyl)phtha	2.8E+00	µg/L	2.8E+00	µg/L	M	7.4E-08	mg/kg-day	1.4E-02	(mg/kg-day)$^{-1}$	1.0E-09
	Arsenic	2.8E+00	µg/L	2.8E+00	µg/L	M	7.2E-08	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	1.1E-07
	Lead										
	Manganese	3.7E+02	µg/L	3.7E+02	µg/L	M	9.8E-06	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Mercury	1.2E-01	µg/L	1.2E-01	µg/L	M	3.0E-09	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	(Total)										1.1E-07
Dermal	bis(2-Ethylhexyl)phtha	2.8E+00	µg/L	2.8E+00	µg/L	M	6.7E-07	mg/kg-day	1.4E-02	(mg/kg-day)$^{-1}$	9.4E-09
	Arsenic	2.8E+00	µg/L	2.8E+00	µg/L	M	2.6E-08	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	3.9E-08
	Lead										
	Manganese	3.7E+02	µg/L	3.7E+02	µg/L	M	3.5E-06	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Mercury	1.2E-01	µg/L	1.2E-01	µg/L	M	1.1E-09	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	(Total)										4.8E-08
										Total Risk Across All Exposure Routes/Pathways	2E-07

(1) Medium-Specific (M) EPC selected for risk calculation.
- - Not detected at this exposure point.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.9.CT
CALCULATION OF CANCER RISKS
CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Surface Water
Exposure Medium: Surface Water
Exposure Point: Pond/Lake
Receptor Population: Recreational User
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion											
	bis(2-Ethylhexyl)phtha	2.8E+00	µg/L	2.8E+00	µg/L	M	1.4E-09	mg/kg-day	1.4E-02	$(mg/kg-day)^{-1}$	1.9E-11
	Arsenic	2.8E+00	µg/L	2.8E+00	µg/L	M	1.3E-09	mg/kg-day	1.5E+00	$(mg/kg-day)^{-1}$	2.0E-09
	Lead										
	Manganese	3.7E+02	µg/L	3.7E+02	µg/L	M	1.8E-07	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	Mercury	4.3E-02	µg/L	4.3E-02	µg/L	M	2.1E-11	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	(Total)										2.0E-09
Dermal											
	bis(2-Ethylhexyl)phtha	2.8E+00	µg/L	2.8E+00	µg/L	M	1.2E-08	mg/kg-day	1.4E-02	$(mg/kg-day)^{-1}$	1.7E-10
	Arsenic	2.8E+00	µg/L	2.8E+00	µg/L	M	4.9E-10	mg/kg-day	1.5E+00	$(mg/kg-day)^{-1}$	7.3E-10
	Lead										
	Manganese	3.7E+02	µg/L	3.7E+02	µg/L	M	6.6E-08	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	Mercury	4.3E-02	µg/L	4.3E-02	µg/L	M	7.6E-12	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	(Total)										9.0E-10
										Total Risk Across All Exposure Routes/Pathways	3E-09

(1) Medium-Specific (M) EPC selected for risk calculation.
- - Not detected at this exposure point.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.10.RME
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Surface Water
Exposure Medium: Surface Water
Exposure Point: Pond/Lake
Receptor Population: Recreational User
Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion											
	bis(2-Ethylhexyl)phtha	2.8E+00	µg/L	2.8E+00	µg/L	M	8.7E-08	mg/kg-day	1.4E-02	(mg/kg-day)$^{-1}$	1.2E-09
	Arsenic	2.8E+00	µg/L	2.8E+00	µg/L	M	8.4E-08	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	1.3E-07
	Lead										
	Manganese	3.7E+02	µg/L	3.7E+02	µg/L	M	1.1E-05	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Mercury	1.2E-01	µg/L	1.2E-01	µg/L	M	3.5E-09	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	(Total)										1.3E-07
Dermal											
	bis(2-Ethylhexyl)phtha	2.8E+00	µg/L	2.8E+00	µg/L	M	2.9E-07	mg/kg-day	1.4E-02	(mg/kg-day)$^{-1}$	4.0E-09
	Arsenic	2.8E+00	µg/L	2.8E+00	µg/L	M	1.1E-08	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	1.7E-08
	Lead										
	Manganese	3.7E+02	µg/L	3.7E+02	µg/L	M	1.5E-06	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Mercury	1.2E-01	µg/L	1.2E-01	µg/L	M	4.6E-10	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	(Total)										2.1E-08
										Total Risk Across All Exposure Routes/Pathways	1E-07

(1) Medium-Specific (M) EPC selected for risk calculation.
- - Not detected at this exposure point.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.10.CT
CALCULATION OF CANCER RISKS
CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Surface Water
Exposure Medium: Surface Water
Exposure Point: Pond/Lake
Receptor Population: Recreational User
Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion											
	bis(2-Ethylhexyl)phtha	2.8E+00	µg/L	2.8E+00	µg/L	M	1.9E-09	mg/kg-day	1.4E-02	(mg/kg-day)$^{-1}$	2.6E-11
	Arsenic	2.8E+00	µg/L	2.8E+00	µg/L	M	1.8E-09	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	2.7E-09
	Lead										
	Manganese	3.7E+02	µg/L	3.7E+02	µg/L	M	2.4E-07	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Mercury	4.3E-02	µg/L	4.3E-02	µg/L	M	2.8E-11	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	(Total)										2.7E-09
Dermal											
	bis(2-Ethylhexyl)phtha	2.8E+00	µg/L	2.8E+00	µg/L	M	6.1E-09	mg/kg-day	1.4E-02	(mg/kg-day)$^{-1}$	8.6E-11
	Arsenic	2.8E+00	µg/L	2.8E+00	µg/L	M	2.4E-10	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	3.6E-10
	Lead										
	Manganese	3.7E+02	µg/L	3.7E+02	µg/L	M	3.2E-08	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Mercury	4.3E-02	µg/L	4.3E-02	µg/L	M	3.7E-12	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	(Total)										4.4E-10
										Total Risk Across All Exposure Routes/Pathways	3E-09

(1) Medium-Specific (M) EPC selected for risk calculation.
- - Not detected at this exposure point.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.11.RME
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Surface Water
Exposure Medium: Surface Water
Exposure Point: Pond/Lake
Receptor Population: 1-Day Recreational User
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Dermal	bis(2-Ethylhexyl)phtha	2.8E+00	µg/L	2.8E+00	µg/L	M	1.4E-07	mg/kg-day	1.4E-02	$(mg/kg-day)^{-1}$	2.0E-09
	Arsenic	2.8E+00	µg/L	2.8E+00	µg/L	M	5.5E-09	mg/kg-day	1.5E+00	$(mg/kg-day)^{-1}$	8.2E-09
	Lead										
	Manganese	3.7E+02	µg/L	3.7E+02	µg/L	M	7.5E-07	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	Mercury	1.2E-01	µg/L	1.2E-01	µg/L	M	2.3E-10	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	(Total)										1.0E-08
										Total Risk Across All Exposure Routes/Pathways	1E-08

(1) Medium-Specific (M) EPC selected for risk calculation.
- - Not detected at this exposure point.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.11.CT
CALCULATION OF CANCER RISKS
CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Surface Water
Exposure Medium: Surface Water
Exposure Point: Pond/Lake
Receptor Population: 1-Day Recreational User
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Dermal	bis(2-Ethylhexyl)phtha	2.8E+00	µg/L	2.8E+00	µg/L	M	2.1E-08	mg/kg-day	1.4E-02	$(mg/kg-day)^{-1}$	2.9E-10
	Arsenic	2.8E+00	µg/L	2.8E+00	µg/L	M	8.0E-10	mg/kg-day	1.5E+00	$(mg/kg-day)^{-1}$	1.2E-09
	Lead										
	Manganese	3.7E+02	µg/L	3.7E+02	µg/L	M	1.1E-07	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	Mercury	4.3E-02	µg/L	4.3E-02	µg/L	M	1.2E-11	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	(Total)										1.5E-09
										Total Risk Across All Exposure Routes/Pathways	1E-09

(1) Medium-Specific (M) EPC selected for risk calculation.
- - Not detected at this exposure point.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.12.RME
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Surface Water
Exposure Medium: Surface Water
Exposure Point: Pond/Lake
Receptor Population: 1-Day Recreational User
Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Dermal	bis(2-Ethylhexyl)phtha	2.8E+00	µg/L	2.8E+00	µg/L	M	8.1E-08	mg/kg-day	1.4E-02	$(mg/kg-day)^{-1}$	1.1E-09
	Arsenic	2.8E+00	µg/L	2.8E+00	µg/L	M	3.1E-09	mg/kg-day	1.5E+00	$(mg/kg-day)^{-1}$	4.7E-09
	Lead										
	Manganese	3.7E+02	µg/L	3.7E+02	µg/L	M	4.3E-07	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	Mercury	1.2E-01	µg/L	1.2E-01	µg/L	M	1.3E-10	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	(Total)										5.8E-09
										Total Risk Across All Exposure Routes/Pathways	6E-09

(1) Medium-Specific (M) EPC selected for risk calculation.
- - Not detected at this exposure point.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.12.CT
CALCULATION OF CANCER RISKS
CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Surface Water
Exposure Medium: Surface Water
Exposure Point: Pond/Lake
Receptor Population: 1-Day Recreational User
Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Dermal											
	bis(2-Ethylhexyl)phtha	2.8E+00	µg/L	2.8E+00	µg/L	M	1.3E-08	mg/kg-day	1.4E-02	$(mg/kg-day)^{-1}$	1.9E-10
	Arsenic	2.8E+00	µg/L	2.8E+00	µg/L	M	5.2E-10	mg/kg-day	1.5E+00	$(mg/kg-day)^{-1}$	7.9E-10
	Lead										
	Manganese	3.7E+02	µg/L	3.7E+02	µg/L	M	7.1E-08	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	Mercury	4.3E-02	µg/L	4.3E-02	µg/L	M	8.2E-12	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	(Total)										9.7E-10
										Total Risk Across All Exposure Routes/Pathways	1E-09

(1) Medium-Specific (M) EPC selected for risk calculation.
- - Not detected at this exposure point.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.13.RME
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Surface Water
Exposure Medium: Surface Water
Exposure Point: Pond/Lake
Receptor Population: 4-Day Recreational User
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Dermal	bis(2-Ethylhexyl)phtha	2.8E+00	µg/L	2.8E+00	µg/L	M	5.6E-07	mg/kg-day	1.4E-02	$(mg/kg-day)^{-1}$	7.9E-09
	Arsenic	2.8E+00	µg/L	2.8E+00	µg/L	M	2.2E-08	mg/kg-day	1.5E+00	$(mg/kg-day)^{-1}$	3.3E-08
	Lead										
	Manganese	3.7E+02	µg/L	3.7E+02	µg/L	M	3.0E-06	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	Mercury	1.2E-01	µg/L	1.2E-01	µg/L	M	9.1E-10	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	(Total)										4.1E-08
										Total Risk Across All Exposure Routes/Pathways	4E-08

(1) Medium-Specific (M) EPC selected for risk calculation.
- - Not detected at this exposure point.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.13.CT
CALCULATION OF CANCER RISKS
CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Surface Water
Exposure Medium: Surface Water
Exposure Point: Pond/Lake
Receptor Population: 4-Day Recreational User
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Dermal	bis(2-Ethylhexyl)phtha	2.8E+00	µg/L	2.8E+00	µg/L	M	6.2E-08	mg/kg-day	1.4E-02	(mg/kg-day)$^{-1}$	8.6E-10
	Arsenic	2.8E+00	µg/L	2.8E+00	µg/L	M	2.4E-09	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	3.6E-09
	Lead										
	Manganese	3.7E+02	µg/L	3.7E+02	µg/L	M	3.3E-07	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Mercury	4.3E-02	µg/L	4.3E-02	µg/L	M	3.7E-11	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	(Total)										4.5E-09
										Total Risk Across All Exposure Routes/Pathways	4E-09

(1) Medium-Specific (M) EPC selected for risk calculation.
- - Not detected at this exposure point.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.14.RME
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Surface Water
Exposure Medium: Surface Water
Exposure Point: Pond/Lake
Receptor Population: 4-Day Recreational User
Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Dermal	bis(2-Ethylhexyl)phtha	2.8E+00	µg/L	2.8E+00	µg/L	M	3.2E-07	mg/kg-day	1.4E-02	$(mg/kg-day)^{-1}$	4.5E-09
	Arsenic	2.8E+00	µg/L	2.8E+00	µg/L	M	1.3E-08	mg/kg-day	1.5E+00	$(mg/kg-day)^{-1}$	1.9E-08
	Lead										
	Manganese	3.7E+02	µg/L	3.7E+02	µg/L	M	1.7E-06	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	Mercury	1.2E-01	µg/L	1.2E-01	µg/L	M	5.2E-10	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	(Total)										2.3E-08
										Total Risk Across All Exposure Routes/Pathways	2E-08

(1) Medium-Specific (M) EPC selected for risk calculation.
- - Not detected at this exposure point.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.14.CT
CALCULATION OF CANCER RISKS
CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Surface Water
Exposure Medium: Surface Water
Exposure Point: Pond/Lake
Receptor Population: 4-Day Recreational User
Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Dermal	bis(2-Ethylhexyl)phtha	2.8E+00	µg/L	2.8E+00	µg/L	M	4.0E-08	mg/kg-day	1.4E-02	(mg/kg-day)$^{-1}$	5.7E-10
	Arsenic	2.8E+00	µg/L	2.8E+00	µg/L	M	1.6E-09	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	2.4E-09
	Lead										
	Manganese	3.7E+02	µg/L	3.7E+02	µg/L	M	2.1E-07	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Mercury	4.3E-02	µg/L	4.3E-02	µg/L	M	2.5E-11	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	(Total)										2.9E-09
										Total Risk Across All Exposure Routes/Pathways	3E-09

(1) Medium-Specific (M) EPC selected for risk calculation.
- - Not detected at this exposure point.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.15.RME
CALCULATION OF CANCER R
REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: River/Stream
Receptor Population: 1-Day Recreational User
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion											
	Benzo(a)anthracene	1.3E+00	mg/kg	1.3E+00	mg/kg	M	2.3E-08	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	1.7E-08
	Benzo(a)pyrene	1.4E+00	mg/kg	1.4E+00	mg/kg	M	2.5E-08	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	1.8E-07
	Benzo(b)fluoranthene	1.6E+00	mg/kg	1.6E+00	mg/kg	M	3.2E-08	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	2.3E-08
	Benzo(k)fluoranthene	1.6E+00	mg/kg	1.6E+00	mg/kg	M	2.8E-08	mg/kg-day	7.3E-02	(mg/kg-day)$^{-1}$	2.1E-09
	Dibenz(a,h)anthracene	2.8E-01	mg/kg	2.8E-01	mg/kg	M	4.9E-09	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	3.6E-08
	Indeno(1,2,3-cd)pyrene	1.5E+00	mg/kg	1.5E+00	mg/kg	M	2.6E-08	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	1.9E-08
	Phenanthrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	2.9E-08	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Antimony	3.5E+00	mg/kg	3.5E+00	mg/kg	M	6.1E-08	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Arsenic	2.6E+01	mg/kg	2.6E+01	mg/kg	M	4.6E-07	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	6.9E-07
	Cadmium	6.1E+00	mg/kg	6.1E+00	mg/kg	M	1.1E-07	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Chromium	3.5E+02	mg/kg	3.5E+02	mg/kg	M	6.2E-06	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Copper	3.4E+02	mg/kg	3.4E+02	mg/kg	M	6.0E-06	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Lead										
	Manganese	2.0E+03	mg/kg	2.0E+03	mg/kg	M	3.5E-05	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Mercury	6.0E-01	mg/kg	6.0E-01	mg/kg	M	1.0E-08	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Vanadium	3.4E+01	mg/kg	3.4E+01	mg/kg	M	6.0E-07	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	(Total)										9.7E-07
Dermal											
	Benzo(a)anthracene	1.3E+00	mg/kg	1.3E+00	mg/kg	M	2.3E-08	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	1.7E-08
	Benzo(a)pyrene	1.4E+00	mg/kg	1.4E+00	mg/kg	M	2.6E-08	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	1.9E-07
	Benzo(b)fluoranthene	1.6E+00	mg/kg	1.6E+00	mg/kg	M	3.3E-08	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	2.4E-08
	Benzo(k)fluoranthene	1.6E+00	mg/kg	1.6E+00	mg/kg	M	2.9E-08	mg/kg-day	7.3E-02	(mg/kg-day)$^{-1}$	2.1E-09
	Dibenz(a,h)anthracene	2.8E-01	mg/kg	2.8E-01	mg/kg	M	5.1E-09	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	3.7E-08
	Indeno(1,2,3-cd)pyrene	1.5E+00	mg/kg	1.5E+00	mg/kg	M	2.7E-08	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	2.0E-08
	Phenanthrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	3.0E-08	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Arsenic	2.6E+01	mg/kg	2.6E+01	mg/kg	M	1.1E-07	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	1.7E-07
	Cadmium	6.1E+00	mg/kg	6.1E+00	mg/kg	M	8.5E-09	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	(Total)										4.5E-07
										Total Risk Across All Exposure Routes/Pathways	1E-06

(1) Medium-Specific (M) EPC selected for hazard calculation.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.15.CT
CALCULATION OF CANCER RISK
CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: River/Stream
Receptor Population: 1-Day Recreational User
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion											
	Benzo(a)anthracene	1.3E+00	mg/kg	1.3E+00	mg/kg	M	3.3E-09	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	2.4E-09
	Benzo(a)pyrene	1.4E+00	mg/kg	1.4E+00	mg/kg	M	3.6E-09	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	2.6E-08
	Benzo(b)fluoranthene	1.8E+00	mg/kg	1.8E+00	mg/kg	M	4.6E-09	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	3.4E-09
	Benzo(k)fluoranthene	1.6E+00	mg/kg	1.6E+00	mg/kg	M	4.1E-09	mg/kg-day	7.3E-02	(mg/kg-day)$^{-1}$	3.0E-10
	Dibenz(a,h)anthracene	2.8E-01	mg/kg	2.8E-01	mg/kg	M	7.2E-10	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	5.3E-09
	Indeno(1,2,3-cd)pyrene	1.5E+00	mg/kg	1.5E+00	mg/kg	M	3.9E-09	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	2.8E-09
	Phenanthrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	4.2E-09	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Antimony	3.5E+00	mg/kg	3.5E+00	mg/kg	M	8.9E-09	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Arsenic	2.6E+01	mg/kg	2.6E+01	mg/kg	M	6.7E-08	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	1.0E-07
	Cadmium	6.1E+00	mg/kg	6.1E+00	mg/kg	M	1.6E-08	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Chromium	3.5E+02	mg/kg	3.5E+02	mg/kg	M	9.0E-07	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Copper	3.4E+02	mg/kg	3.4E+02	mg/kg	M	8.8E-07	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Lead										
	Manganese	2.0E+03	mg/kg	2.0E+03	mg/kg	M	5.0E-06	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Mercury	6.0E-01	mg/kg	6.0E-01	mg/kg	M	1.5E-09	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Vanadium	3.4E+01	mg/kg	3.4E+01	mg/kg	M	8.7E-08	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	(Total)										1.4E-07
Dermal											
	Benzo(a)anthracene	1.3E+00	mg/kg	1.3E+00	mg/kg	M	6.8E-09	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	5.0E-09
	Benzo(a)pyrene	1.4E+00	mg/kg	1.4E+00	mg/kg	M	7.4E-09	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	5.4E-08
	Benzo(b)fluoranthene	1.8E+00	mg/kg	1.8E+00	mg/kg	M	9.5E-09	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	7.0E-09
	Benzo(k)fluoranthene	1.6E+00	mg/kg	1.6E+00	mg/kg	M	8.5E-09	mg/kg-day	7.3E-02	(mg/kg-day)$^{-1}$	6.2E-10
	Dibenz(a,h)anthracene	2.8E-01	mg/kg	2.8E-01	mg/kg	M	1.5E-09	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	1.1E-08
	Indeno(1,2,3-cd)pyrene	1.5E+00	mg/kg	1.5E+00	mg/kg	M	8.0E-09	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	5.8E-09
	Phenanthrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	8.8E-09	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Arsenic	2.6E+01	mg/kg	2.6E+01	mg/kg	M	3.2E-08	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	4.8E-08
	Cadmium	6.1E+00	mg/kg	6.1E+00	mg/kg	M	2.5E-09	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	(Total)										1.3E-07
										Total Risk Across All Exposure Routes/Pathways	3E-07

(1) Medium-Specific (M) EPC selected for hazard calculation.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.16.RME
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: River/Stream
Receptor Population: 1-Day Recreational User
Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion											
	Benzo(a)anthracene	1.3E+00	mg/kg	1.3E+00	mg/kg	M	5.3E-08	mg/kg-day	7.3E-01	$(mg/kg-day)^{-1}$	3.9E-08
	Benzo(a)pyrene	1.4E+00	mg/kg	1.4E+00	mg/kg	M	5.7E-08	mg/kg-day	7.3E+00	$(mg/kg-day)^{-1}$	4.2E-07
	Benzo(b)fluoranthene	1.8E+00	mg/kg	1.8E+00	mg/kg	M	7.4E-08	mg/kg-day	7.3E-01	$(mg/kg-day)^{-1}$	5.4E-08
	Benzo(k)fluoranthene	1.6E+00	mg/kg	1.6E+00	mg/kg	M	6.6E-08	mg/kg-day	7.3E-02	$(mg/kg-day)^{-1}$	4.8E-09
	Dibenz(a,h)anthracene	2.8E-01	mg/kg	2.8E-01	mg/kg	M	1.2E-08	mg/kg-day	7.3E+00	$(mg/kg-day)^{-1}$	8.4E-08
	Indeno(1,2,3-cd)pyrene	1.5E+00	mg/kg	1.5E+00	mg/kg	M	6.2E-08	mg/kg-day	7.3E-01	$(mg/kg-day)^{-1}$	4.5E-08
	Phenanthrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	6.8E-08	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	Antimony	3.5E+00	mg/kg	3.5E+00	mg/kg	M	1.4E-07	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	Arsenic	2.6E+01	mg/kg	2.6E+01	mg/kg	M	1.1E-06	mg/kg-day	1.5E+00	$(mg/kg-day)^{-1}$	1.6E-06
	Cadmium	6.1E+00	mg/kg	6.1E+00	mg/kg	M	2.5E-07	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	Chromium	3.5E+02	mg/kg	3.5E+02	mg/kg	M	1.4E-05	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	Copper	3.4E+02	mg/kg	3.4E+02	mg/kg	M	1.4E-05	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	Lead										
	Manganese	2.0E+03	mg/kg	2.0E+03	mg/kg	M	8.1E-05	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	Mercury	6.0E-01	mg/kg	6.0E-01	mg/kg	M	2.4E-08	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	Vanadium	3.4E+01	mg/kg	3.4E+01	mg/kg	M	1.4E-06	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	(Total)										2.3E-06
Dermal											
	Benzo(a)anthracene	1.3E+00	mg/kg	1.3E+00	mg/kg	M	5.8E-08	mg/kg-day	7.3E-01	$(mg/kg-day)^{-1}$	4.2E-08
	Benzo(a)pyrene	1.4E+00	mg/kg	1.4E+00	mg/kg	M	6.3E-08	mg/kg-day	7.3E+00	$(mg/kg-day)^{-1}$	4.6E-07
	Benzo(b)fluoranthene	1.8E+00	mg/kg	1.8E+00	mg/kg	M	8.0E-08	mg/kg-day	7.3E-01	$(mg/kg-day)^{-1}$	5.9E-08
	Benzo(k)fluoranthene	1.6E+00	mg/kg	1.6E+00	mg/kg	M	7.2E-08	mg/kg-day	7.3E-02	$(mg/kg-day)^{-1}$	5.2E-09
	Dibenz(a,h)anthracene	2.8E-01	mg/kg	2.8E-01	mg/kg	M	1.3E-08	mg/kg-day	7.3E+00	$(mg/kg-day)^{-1}$	9.2E-08
	Indeno(1,2,3-cd)pyrene	1.5E+00	mg/kg	1.5E+00	mg/kg	M	6.7E-08	mg/kg-day	7.3E-01	$(mg/kg-day)^{-1}$	4.9E-08
	Phenanthrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	7.4E-08	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	Arsenic	2.6E+01	mg/kg	2.6E+01	mg/kg	M	2.7E-07	mg/kg-day	1.5E+00	$(mg/kg-day)^{-1}$	4.1E-07
	Cadmium	6.1E+00	mg/kg	6.1E+00	mg/kg	M	2.1E-08	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	(Total)										1.1E-06
										Total Risk Across All Exposure Routes/Pathways	3E-06

(1) Medium-Specific (M) EPC selected for hazard calculation.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.16.CT
CALCULATION OF CANCER ... 3
CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: River/Stream
Receptor Population: 1-Day Recreational User
Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion											
	Benzo(a)anthracene	1.3E+00	mg/kg	1.3E+00	mg/kg	M	8.8E-09	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	6.4E-09
	Benzo(a)pyrene	1.4E+00	mg/kg	1.4E+00	mg/kg	M	9.6E-09	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	7.0E-08
	Benzo(b)fluoranthene	1.8E+00	mg/kg	1.8E+00	mg/kg	M	1.2E-08	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	8.9E-09
	Benzo(k)fluoranthene	1.6E+00	mg/kg	1.6E+00	mg/kg	M	1.1E-08	mg/kg-day	7.3E-02	(mg/kg-day)$^{-1}$	8.0E-10
	Dibenz(a,h)anthracene	2.8E-01	mg/kg	2.8E-01	mg/kg	M	1.9E-09	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	1.4E-08
	Indeno(1,2,3-cd)pyrene	1.5E+00	mg/kg	1.5E+00	mg/kg	M	1.0E-08	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	7.5E-09
	Phenanthrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	1.1E-08	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Antimony	3.5E+00	mg/kg	3.5E+00	mg/kg	M	2.4E-08	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Arsenic	2.6E+01	mg/kg	2.6E+01	mg/kg	M	1.8E-07	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	2.7E-07
	Cadmium	6.1E+00	mg/kg	6.1E+00	mg/kg	M	4.1E-08	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Chromium	3.5E+02	mg/kg	3.5E+02	mg/kg	M	2.4E-06	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Copper	3.4E+02	mg/kg	3.4E+02	mg/kg	M	2.3E-06	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Lead										
	Manganese	2.0E+03	mg/kg	2.0E+03	mg/kg	M	1.3E-05	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Mercury	6.0E-01	mg/kg	6.0E-01	mg/kg	M	4.1E-09	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Vanadium	3.4E+01	mg/kg	3.4E+01	mg/kg	M	2.3E-07	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	(Total)										3.8E-07
Dermal											
	Benzo(a)anthracene	1.3E+00	mg/kg	1.3E+00	mg/kg	M	1.9E-08	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	1.4E-08
	Benzo(a)pyrene	1.4E+00	mg/kg	1.4E+00	mg/kg	M	2.1E-08	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	1.5E-07
	Benzo(b)fluoranthene	1.8E+00	mg/kg	1.8E+00	mg/kg	M	2.7E-08	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	2.0E-08
	Benzo(k)fluoranthene	1.6E+00	mg/kg	1.6E+00	mg/kg	M	2.4E-08	mg/kg-day	7.3E-02	(mg/kg-day)$^{-1}$	1.7E-09
	Dibenz(a,h)anthracene	2.8E-01	mg/kg	2.8E-01	mg/kg	M	4.2E-09	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	3.1E-08
	Indeno(1,2,3-cd)pyrene	1.5E+00	mg/kg	1.5E+00	mg/kg	M	2.2E-08	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	1.6E-08
	Phenanthrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	2.5E-08	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Arsenic	2.6E+01	mg/kg	2.6E+01	mg/kg	M	9.0E-08	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	1.4E-07
	Cadmium	6.1E+00	mg/kg	6.1E+00	mg/kg	M	7.0E-09	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	(Total)										3.7E-07
										Total Risk Across All Exposure Routes/Pathways	7E-07

(1) Medium-Specific (M) EPC selected for hazard calculation.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.17.RME
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: River/Stream
Receptor Population: 4-Day Recreational User
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion											
	Benzo(a)anthracene	1.3E+00	mg/kg	1.3E+00	mg/kg	M	9.0E-08	mg/kg-day	7.3E-01	$(mg/kg-day)^{-1}$	6.6E-08
	Benzo(a)pyrene	1.4E+00	mg/kg	1.4E+00	mg/kg	M	9.8E-08	mg/kg-day	7.3E+00	$(mg/kg-day)^{-1}$	7.2E-07
	Benzo(b)fluoranthene	1.8E+00	mg/kg	1.8E+00	mg/kg	M	1.3E-07	mg/kg-day	7.3E-01	$(mg/kg-day)^{-1}$	9.2E-08
	Benzo(k)fluoranthene	1.6E+00	mg/kg	1.6E+00	mg/kg	M	1.1E-07	mg/kg-day	7.3E-02	$(mg/kg-day)^{-1}$	8.2E-09
	Dibenz(a,h)anthracene	2.8E-01	mg/kg	2.8E-01	mg/kg	M	2.0E-08	mg/kg-day	7.3E+00	$(mg/kg-day)^{-1}$	1.4E-07
	Indeno(1,2,3-cd)pyrene	1.5E+00	mg/kg	1.5E+00	mg/kg	M	1.1E-07	mg/kg-day	7.3E-01	$(mg/kg-day)^{-1}$	7.7E-08
	Phenanthrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	1.2E-07	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	Antimony	3.5E+00	mg/kg	3.5E+00	mg/kg	M	2.5E-07	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	Arsenic	2.6E+01	mg/kg	2.6E+01	mg/kg	M	1.8E-06	mg/kg-day	1.5E+00	$(mg/kg-day)^{-1}$	2.8E-06
	Cadmium	6.1E+00	mg/kg	6.1E+00	mg/kg	M	4.3E-07	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	Chromium	3.5E+02	mg/kg	3.5E+02	mg/kg	M	2.5E-05	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	Copper	3.4E+02	mg/kg	3.4E+02	mg/kg	M	2.4E-05	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	Lead										
	Manganese	2.0E+03	mg/kg	2.0E+03	mg/kg	M	1.4E-04	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	Mercury	6.0E-01	mg/kg	6.0E-01	mg/kg	M	4.2E-08	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	Vanadium	3.4E+01	mg/kg	3.4E+01	mg/kg	M	2.4E-06	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	(Total)										3.9E-06
Dermal											
	Benzo(a)anthracene	1.3E+00	mg/kg	1.3E+00	mg/kg	M	9.4E-08	mg/kg-day	7.3E-01	$(mg/kg-day)^{-1}$	6.9E-08
	Benzo(a)pyrene	1.4E+00	mg/kg	1.4E+00	mg/kg	M	1.0E-07	mg/kg-day	7.3E+00	$(mg/kg-day)^{-1}$	7.4E-07
	Benzo(b)fluoranthene	1.8E+00	mg/kg	1.8E+00	mg/kg	M	1.3E-07	mg/kg-day	7.3E-01	$(mg/kg-day)^{-1}$	9.5E-08
	Benzo(k)fluoranthene	1.6E+00	mg/kg	1.6E+00	mg/kg	M	1.2E-07	mg/kg-day	7.3E-02	$(mg/kg-day)^{-1}$	8.5E-09
	Dibenz(a,h)anthracene	2.8E-01	mg/kg	2.8E-01	mg/kg	M	2.1E-08	mg/kg-day	7.3E+00	$(mg/kg-day)^{-1}$	1.5E-07
	Indeno(1,2,3-cd)pyrene	1.5E+00	mg/kg	1.5E+00	mg/kg	M	1.1E-07	mg/kg-day	7.3E-01	$(mg/kg-day)^{-1}$	8.0E-08
	Phenanthrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	1.2E-07	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	Arsenic	2.6E+01	mg/kg	2.6E+01	mg/kg	M	4.4E-07	mg/kg-day	1.5E+00	$(mg/kg-day)^{-1}$	6.6E-07
	Cadmium	6.1E+00	mg/kg	6.1E+00	mg/kg	M	3.4E-08	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	(Total)										1.8E-06
										Total Risk Across All Exposure Routes/Pathways	6E-06

(1) Medium-Specific (M) EPC selected for hazard calculation.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.17.CT
CALCULATION OF CANCER RISK
CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: River/Stream
Receptor Population: 4-Day Recreational User
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion											
	Benzo(a)anthracene	1.3E+00	mg/kg	1.3E+00	mg/kg	M	9.9E-09	mg/kg-day	7.3E-01	$(mg/kg-day)^{-1}$	7.2E-09
	Benzo(a)pyrene	1.4E+00	mg/kg	1.4E+00	mg/kg	M	1.1E-08	mg/kg-day	7.3E+00	$(mg/kg-day)^{-1}$	7.9E-08
	Benzo(b)fluoranthene	1.8E+00	mg/kg	1.8E+00	mg/kg	M	1.4E-08	mg/kg-day	7.3E-01	$(mg/kg-day)^{-1}$	1.0E-08
	Benzo(k)fluoranthene	1.6E+00	mg/kg	1.6E+00	mg/kg	M	1.2E-08	mg/kg-day	7.3E-02	$(mg/kg-day)^{-1}$	9.0E-10
	Dibenz(a,h)anthracene	2.8E-01	mg/kg	2.8E-01	mg/kg	M	2.2E-09	mg/kg-day	7.3E+00	$(mg/kg-day)^{-1}$	1.6E-08
	Indeno(1,2,3-cd)pyrene	1.5E+00	mg/kg	1.5E+00	mg/kg	M	1.2E-08	mg/kg-day	7.3E-01	$(mg/kg-day)^{-1}$	8.4E-09
	Phenanthrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	1.3E-08	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	Antimony	3.5E+00	mg/kg	3.5E+00	mg/kg	M	2.7E-08	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	Arsenic	2.6E+01	mg/kg	2.6E+01	mg/kg	M	2.0E-07	mg/kg-day	1.5E+00	$(mg/kg-day)^{-1}$	3.0E-07
	Cadmium	6.1E+00	mg/kg	6.1E+00	mg/kg	M	4.7E-08	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	Chromium	3.5E+02	mg/kg	3.5E+02	mg/kg	M	2.7E-06	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	Copper	3.4E+02	mg/kg	3.4E+02	mg/kg	M	2.6E-06	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	Lead										
	Manganese	2.0E+03	mg/kg	2.0E+03	mg/kg	M	1.5E-05	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	Mercury	6.0E-01	mg/kg	6.0E-01	mg/kg	M	4.6E-09	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	Vanadium	3.4E+01	mg/kg	3.4E+01	mg/kg	M	2.6E-07	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	(Total)										4.2E-07
Dermal											
	Benzo(a)anthracene	1.3E+00	mg/kg	1.3E+00	mg/kg	M	2.1E-08	mg/kg-day	7.3E-01	$(mg/kg-day)^{-1}$	1.5E-08
	Benzo(a)pyrene	1.4E+00	mg/kg	1.4E+00	mg/kg	M	2.2E-08	mg/kg-day	7.3E+00	$(mg/kg-day)^{-1}$	1.6E-07
	Benzo(b)fluoranthene	1.8E+00	mg/kg	1.8E+00	mg/kg	M	2.9E-08	mg/kg-day	7.3E-01	$(mg/kg-day)^{-1}$	2.1E-08
	Benzo(k)fluoranthene	1.6E+00	mg/kg	1.6E+00	mg/kg	M	2.6E-08	mg/kg-day	7.3E-02	$(mg/kg-day)^{-1}$	1.9E-09
	Dibenz(a,h)anthracene	2.8E-01	mg/kg	2.8E-01	mg/kg	M	4.5E-09	mg/kg-day	7.3E+00	$(mg/kg-day)^{-1}$	3.3E-08
	Indeno(1,2,3-cd)pyrene	1.5E+00	mg/kg	1.5E+00	mg/kg	M	2.4E-08	mg/kg-day	7.3E-01	$(mg/kg-day)^{-1}$	1.8E-08
	Phenanthrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	2.6E-08	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	Arsenic	2.6E+01	mg/kg	2.6E+01	mg/kg	M	9.7E-08	mg/kg-day	1.5E+00	$(mg/kg-day)^{-1}$	1.4E-07
	Cadmium	6.1E+00	mg/kg	6.1E+00	mg/kg	M	7.4E-09	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	(Total)										4.0E-07
										Total Risk Across All Exposure Routes/Pathways	8E-07

(1) Medium-Specific (M) EPC selected for hazard calculation.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.18.R...
CALCULATION OF CANCER R...
REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: River/Stream
Receptor Population: 4-Day Recreational User
Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion											
	Benzo(a)anthracene	1.3E+00	mg/kg	1.3E+00	mg/kg	M	2.1E-07	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	1.5E-07
	Benzo(a)pyrene	1.4E+00	mg/kg	1.4E+00	mg/kg	M	2.3E-07	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	1.7E-06
	Benzo(b)fluoranthene	1.8E+00	mg/kg	1.8E+00	mg/kg	M	2.9E-07	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	2.1E-07
	Benzo(k)fluoranthene	1.6E+00	mg/kg	1.6E+00	mg/kg	M	2.6E-07	mg/kg-day	7.3E-02	(mg/kg-day)$^{-1}$	1.9E-08
	Dibenz(a,h)anthracene	2.8E-01	mg/kg	2.8E-01	mg/kg	M	4.6E-08	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	3.4E-07
	Indeno(1,2,3-cd)pyrene	1.5E+00	mg/kg	1.5E+00	mg/kg	M	2.5E-07	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	1.8E-07
	Phenanthrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	2.7E-07	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Antimony	3.5E+00	mg/kg	3.5E+00	mg/kg	M	5.7E-07	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Arsenic	2.6E+01	mg/kg	2.6E+01	mg/kg	M	4.3E-06	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	6.5E-06
	Cadmium	6.1E+00	mg/kg	6.1E+00	mg/kg	M	9.9E-07	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Chromium	3.5E+02	mg/kg	3.5E+02	mg/kg	M	5.7E-05	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Copper	3.4E+02	mg/kg	3.4E+02	mg/kg	M	5.6E-05	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Lead										
	Manganese	2.0E+03	mg/kg	2.0E+03	mg/kg	M	3.2E-04	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Mercury	6.0E-01	mg/kg	6.0E-01	mg/kg	M	9.8E-08	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Vanadium	3.4E+01	mg/kg	3.4E+01	mg/kg	M	5.6E-06	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	(Total)										9.0E-06
Dermal											
	Benzo(a)anthracene	1.3E+00	mg/kg	1.3E+00	mg/kg	M	2.3E-07	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	1.7E-07
	Benzo(a)pyrene	1.4E+00	mg/kg	1.4E+00	mg/kg	M	2.5E-07	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	1.8E-06
	Benzo(b)fluoranthene	1.8E+00	mg/kg	1.8E+00	mg/kg	M	3.2E-07	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	2.3E-07
	Benzo(k)fluoranthene	1.6E+00	mg/kg	1.6E+00	mg/kg	M	2.9E-07	mg/kg-day	7.3E-02	(mg/kg-day)$^{-1}$	2.1E-08
	Dibenz(a,h)anthracene	2.8E-01	mg/kg	2.8E-01	mg/kg	M	5.0E-08	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	3.7E-07
	Indeno(1,2,3-cd)pyrene	1.5E+00	mg/kg	1.5E+00	mg/kg	M	2.7E-07	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	2.0E-07
	Phenanthrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	3.0E-07	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Arsenic	2.6E+01	mg/kg	2.6E+01	mg/kg	M	1.1E-06	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	1.6E-06
	Cadmium	6.1E+00	mg/kg	6.1E+00	mg/kg	M	8.3E-08	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	(Total)										4.4E-06
										Total Risk Across All Exposure Routes/Pathways	1E-05

(1) Medium-Specific (M) EPC selected for hazard calculation.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.18.CT
CALCULATION OF CANCER
CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: River/Stream
Receptor Population: 4-Day Recreational User
Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)anthracene	1.3E+00	mg/kg	1.3E+00	mg/kg	M	2.6E-08	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	1.9E-08
	Benzo(a)pyrene	1.4E+00	mg/kg	1.4E+00	mg/kg	M	2.9E-08	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	2.1E-07
	Benzo(b)fluoranthene	1.8E+00	mg/kg	1.8E+00	mg/kg	M	3.7E-08	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	2.7E-08
	Benzo(k)fluoranthene	1.6E+00	mg/kg	1.6E+00	mg/kg	M	3.3E-08	mg/kg-day	7.3E-02	(mg/kg-day)$^{-1}$	2.4E-09
	Dibenz(a,h)anthracene	2.8E-01	mg/kg	2.8E-01	mg/kg	M	5.8E-09	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	4.2E-08
	Indeno(1,2,3-cd)pyrene	1.5E+00	mg/kg	1.5E+00	mg/kg	M	3.1E-08	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	2.3E-08
	Phenanthrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	3.4E-08	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Antimony	3.5E+00	mg/kg	3.5E+00	mg/kg	M	7.2E-08	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Arsenic	2.6E+01	mg/kg	2.6E+01	mg/kg	M	5.4E-07	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	8.1E-07
	Cadmium	6.1E+00	mg/kg	6.1E+00	mg/kg	M	1.2E-07	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Chromium	3.5E+02	mg/kg	3.5E+02	mg/kg	M	7.2E-06	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Copper	3.4E+02	mg/kg	3.4E+02	mg/kg	M	7.0E-06	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Lead										
	Manganese	2.0E+03	mg/kg	2.0E+03	mg/kg	M	4.0E-05	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Mercury	6.0E-01	mg/kg	6.0E-01	mg/kg	M	1.2E-08	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Vanadium	3.4E+01	mg/kg	3.4E+01	mg/kg	M	7.0E-07	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	(Total)										1.1E-06
Dermal	Benzo(a)anthracene	1.3E+00	mg/kg	1.3E+00	mg/kg	M	5.8E-08	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	4.2E-08
	Benzo(a)pyrene	1.4E+00	mg/kg	1.4E+00	mg/kg	M	6.3E-08	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	4.6E-07
	Benzo(b)fluoranthene	1.8E+00	mg/kg	1.8E+00	mg/kg	M	8.0E-08	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	5.9E-08
	Benzo(k)fluoranthene	1.6E+00	mg/kg	1.6E+00	mg/kg	M	7.2E-08	mg/kg-day	7.3E-02	(mg/kg-day)$^{-1}$	5.2E-09
	Dibenz(a,h)anthracene	2.8E-01	mg/kg	2.8E-01	mg/kg	M	1.3E-08	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	9.2E-08
	Indeno(1,2,3-cd)pyrene	1.5E+00	mg/kg	1.5E+00	mg/kg	M	6.7E-08	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	4.9E-08
	Phenanthrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	7.4E-08	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Arsenic	2.6E+01	mg/kg	2.6E+01	mg/kg	M	2.7E-07	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	4.1E-07
	Cadmium	6.1E+00	mg/kg	6.1E+00	mg/kg	M	2.1E-08	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	(Total)										1.1E-06
										Total Risk Across All Exposure Routes/Pathways	2E-06

(1) Medium-Specific (M) EPC selected for hazard calculation.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.19.RME
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: Wetland
Receptor Population: 1-Day Recreational User
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion											
	Benzo(a)anthracene	3.8E+00	mg/kg	3.8E+00	mg/kg	M	6.7E-08	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	4.9E-08
	Benzo(a)pyrene	3.2E+00	mg/kg	3.2E+00	mg/kg	M	5.6E-08	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	4.1E-07
	Benzo(b)fluoranthene	6.0E+00	mg/kg	6.0E+00	mg/kg	M	1.1E-07	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	7.7E-08
	Benzo(k)fluoranthene	9.6E+00	mg/kg	9.6E+00	mg/kg	M	1.7E-07	mg/kg-day	7.3E-02	(mg/kg-day)$^{-1}$	1.2E-08
	Dibenz(a,h)anthracene	3.5E-01	mg/kg	3.5E-01	mg/kg	M	6.1E-09	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	4.5E-08
	Indeno(1,2,3-cd)pyrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	3.0E-08	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	2.2E-08
	Phenanthrene	1.2E+01	mg/kg	1.2E+01	mg/kg	M	2.0E-07	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Aroclor 1248	2.6E-01	mg/kg	2.6E-01	mg/kg	M	4.6E-09	mg/kg-day	2.0E+00	(mg/kg-day)$^{-1}$	9.1E-09
	Antimony	1.0E+00	mg/kg	1.0E+00	mg/kg	M	1.8E-08	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Arsenic	3.3E+01	mg/kg	3.3E+01	mg/kg	M	5.7E-07	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	8.6E-07
	Cadmium	2.2E+00	mg/kg	2.2E+00	mg/kg	M	3.8E-08	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Chromium	4.1E+02	mg/kg	4.1E+02	mg/kg	M	7.2E-06	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Copper	9.3E+01	mg/kg	9.3E+01	mg/kg	M	1.6E-06	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Lead										
	Manganese	2.1E+02	mg/kg	2.1E+02	mg/kg	M	3.7E-06	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Mercury	7.1E-01	mg/kg	7.1E-01	mg/kg	M	1.2E-08	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Vanadium	9.9E+01	mg/kg	9.9E+01	mg/kg	M	1.7E-06	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	(Total)										1.5E-06
Dermal											
	Benzo(a)anthracene	3.8E+00	mg/kg	3.8E+00	mg/kg	M	6.9E-08	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	5.0E-08
	Benzo(a)pyrene	3.2E+00	mg/kg	3.2E+00	mg/kg	M	5.8E-08	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	4.2E-07
	Benzo(b)fluoranthene	6.0E+00	mg/kg	6.0E+00	mg/kg	M	1.1E-07	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	8.0E-08
	Benzo(k)fluoranthene	9.6E+00	mg/kg	9.6E+00	mg/kg	M	1.7E-07	mg/kg-day	7.3E-02	(mg/kg-day)$^{-1}$	1.3E-08
	Dibenz(a,h)anthracene	3.5E-01	mg/kg	3.5E-01	mg/kg	M	6.3E-09	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	4.6E-08
	Indeno(1,2,3-cd)pyrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	3.1E-08	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	2.2E-08
	Phenanthrene	1.2E+01	mg/kg	1.2E+01	mg/kg	M	2.1E-07	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Aroclor 1248	2.6E-01	mg/kg	2.6E-01	mg/kg	M	5.1E-09	mg/kg-day	2.0E+00	(mg/kg-day)$^{-1}$	1.0E-08
	Arsenic	3.3E+01	mg/kg	3.3E+01	mg/kg	M	1.4E-07	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	2.1E-07
	Cadmium	2.2E+00	mg/kg	2.2E+00	mg/kg	M	3.0E-09	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	(Total)										8.5E-07
										Total Risk Across All Exposure Routes/Pathways	2E-06

(1) Medium-Specific (M) EPC selected for hazard calculation.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.19.CT
CALCULATION OF CANCER R...
CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: Wetland
Receptor Population: 1-Day Recreational User
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion											
	Benzo(a)anthracene	3.8E+00	mg/kg	3.8E+00	mg/kg	M	9.7E-09	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	7.1E-09
	Benzo(a)pyrene	3.2E+00	mg/kg	3.2E+00	mg/kg	M	8.1E-09	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	5.9E-08
	Benzo(b)fluoranthene	6.0E+00	mg/kg	6.0E+00	mg/kg	M	1.5E-08	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	1.1E-08
	Benzo(k)fluoranthene	9.6E+00	mg/kg	9.6E+00	mg/kg	M	2.4E-08	mg/kg-day	7.3E-02	(mg/kg-day)$^{-1}$	1.8E-09
	Dibenz(a,h)anthracene	3.5E-01	mg/kg	3.5E-01	mg/kg	M	8.9E-10	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	6.5E-09
	Indeno(1,2,3-cd)pyrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	4.3E-09	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	3.2E-09
	Phenanthrene	1.2E+01	mg/kg	1.2E+01	mg/kg	M	3.0E-08	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Aroclor 1248	2.6E-01	mg/kg	2.6E-01	mg/kg	M	6.6E-10	mg/kg-day	1.0E+00	(mg/kg-day)$^{-1}$	6.6E-10
	Antimony	1.0E+00	mg/kg	1.0E+00	mg/kg	M	2.7E-09	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Arsenic	3.3E+01	mg/kg	3.3E+01	mg/kg	M	8.3E-08	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	1.2E-07
	Cadmium	2.2E+00	mg/kg	2.2E+00	mg/kg	M	5.5E-09	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Chromium	4.1E+02	mg/kg	4.1E+02	mg/kg	M	1.0E-06	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Copper	9.3E+01	mg/kg	9.3E+01	mg/kg	M	2.4E-07	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Lead										
	Manganese	2.1E+02	mg/kg	2.1E+02	mg/kg	M	5.3E-07	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Mercury	7.1E-01	mg/kg	7.1E-01	mg/kg	M	1.8E-08	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Vanadium	9.9E+01	mg/kg	9.9E+01	mg/kg	M	2.5E-07	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	(Total)										2.1E-07
Dermal											
	Benzo(a)anthracene	3.8E+00	mg/kg	3.8E+00	mg/kg	M	2.0E-08	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	1.5E-08
	Benzo(a)pyrene	3.2E+00	mg/kg	3.2E+00	mg/kg	M	1.7E-08	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	1.2E-07
	Benzo(b)fluoranthene	6.0E+00	mg/kg	6.0E+00	mg/kg	M	3.2E-08	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	2.3E-08
	Benzo(k)fluoranthene	9.6E+00	mg/kg	9.6E+00	mg/kg	M	5.1E-08	mg/kg-day	7.3E-02	(mg/kg-day)$^{-1}$	3.7E-09
	Dibenz(a,h)anthracene	3.5E-01	mg/kg	3.5E-01	mg/kg	M	1.9E-09	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	1.3E-08
	Indeno(1,2,3-cd)pyrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	9.0E-09	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	6.6E-09
	Phenanthrene	1.2E+01	mg/kg	1.2E+01	mg/kg	M	6.2E-08	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Aroclor 1248	2.6E-01	mg/kg	2.6E-01	mg/kg	M	1.5E-09	mg/kg-day	1.0E+00	(mg/kg-day)$^{-1}$	1.5E-09
	Arsenic	3.3E+01	mg/kg	3.3E+01	mg/kg	M	4.0E-08	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	6.0E-08
	Cadmium	2.2E+00	mg/kg	2.2E+00	mg/kg	M	8.8E-10	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	(Total)										2.5E-07
										Total Risk Across All Exposure Routes/Pathways	5E-07

(1) Medium-Specific (M) EPC selected for hazard calculation.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.20.RME
CALCULATION OF CANCER RISK
REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: Wetland
Receptor Population: 1-Day Recreational User
Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion											
	Benzo(a)anthracene	3.8E+00	mg/kg	3.8E+00	mg/kg	M	1.6E-07	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	1.1E-07
	Benzo(a)pyrene	3.2E+00	mg/kg	3.2E+00	mg/kg	M	1.3E-07	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	9.5E-07
	Benzo(b)fluoranthene	6.0E+00	mg/kg	6.0E+00	mg/kg	M	2.5E-07	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	1.8E-07
	Benzo(k)fluoranthene	9.6E+00	mg/kg	9.6E+00	mg/kg	M	3.9E-07	mg/kg-day	7.3E-02	(mg/kg-day)$^{-1}$	2.9E-08
	Dibenz(a,h)anthracene	3.5E-01	mg/kg	3.5E-01	mg/kg	M	1.4E-08	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	1.0E-07
	Indeno(1,2,3-cd)pyrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	6.9E-08	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	5.1E-08
	Phenanthrene	1.2E+01	mg/kg	1.2E+01	mg/kg	M	4.8E-07	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Aroclor 1248	2.6E-01	mg/kg	2.6E-01	mg/kg	M	1.1E-08	mg/kg-day	2.0E+00	(mg/kg-day)$^{-1}$	2.1E-08
	Antimony	1.0E+00	mg/kg	1.0E+00	mg/kg	M	4.3E-08	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Arsenic	3.3E+01	mg/kg	3.3E+01	mg/kg	M	1.3E-06	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	2.0E-06
	Cadmium	2.2E+00	mg/kg	2.2E+00	mg/kg	M	8.8E-08	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Chromium	4.1E+02	mg/kg	4.1E+02	mg/kg	M	1.7E-05	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Copper	9.3E+01	mg/kg	9.3E+01	mg/kg	M	3.8E-06	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Lead										
	Manganese	2.1E+02	mg/kg	2.1E+02	mg/kg	M	8.5E-06	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Mercury	7.1E-01	mg/kg	7.1E-01	mg/kg	M	2.9E-08	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Vanadium	9.9E+01	mg/kg	9.9E+01	mg/kg	M	4.0E-06	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	(Total)										3.4E-06
Dermal											
	Benzo(a)anthracene	3.8E+00	mg/kg	3.8E+00	mg/kg	M	1.7E-07	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	1.2E-07
	Benzo(a)pyrene	3.2E+00	mg/kg	3.2E+00	mg/kg	M	1.4E-07	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	1.0E-06
	Benzo(b)fluoranthene	6.0E+00	mg/kg	6.0E+00	mg/kg	M	2.7E-07	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	2.0E-07
	Benzo(k)fluoranthene	9.6E+00	mg/kg	9.6E+00	mg/kg	M	4.3E-07	mg/kg-day	7.3E-02	(mg/kg-day)$^{-1}$	3.1E-08
	Dibenz(a,h)anthracene	3.5E-01	mg/kg	3.5E-01	mg/kg	M	1.6E-08	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	1.1E-07
	Indeno(1,2,3-cd)pyrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	7.6E-08	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	5.5E-08
	Phenanthrene	1.2E+01	mg/kg	1.2E+01	mg/kg	M	5.2E-07	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Aroclor 1248	2.6E-01	mg/kg	2.6E-01	mg/kg	M	1.3E-08	mg/kg-day	2.0E+00	(mg/kg-day)$^{-1}$	2.5E-08
	Arsenic	3.3E+01	mg/kg	3.3E+01	mg/kg	M	3.4E-07	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	5.0E-07
	Cadmium	2.2E+00	mg/kg	2.2E+00	mg/kg	M	7.4E-09	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	(Total)										2.1E-06
										Total Risk Across All Exposure Routes/Pathways	6E-06

(1) Medium-Specific (M) EPC selected for hazard calculation.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.20
CALCULATION OF CAN (S
CENTRAL TENDENC

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: Wetland
Receptor Population: 1-Day Recreational User
Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion											
	Benzo(a)anthracene	3.8E+00	mg/kg	3.8E+00	mg/kg	M	2.6E-08	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	1.9E-08
	Benzo(a)pyrene	3.2E+00	mg/kg	3.2E+00	mg/kg	M	2.2E-08	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	1.6E-07
	Benzo(b)fluoranthene	6.0E+00	mg/kg	6.0E+00	mg/kg	M	4.1E-08	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	3.0E-08
	Benzo(k)fluoranthene	9.6E+00	mg/kg	9.6E+00	mg/kg	M	6.5E-08	mg/kg-day	7.3E-02	(mg/kg-day)$^{-1}$	4.8E-09
	Dibenz(a,h)anthracene	3.5E-01	mg/kg	3.5E-01	mg/kg	M	2.4E-09	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	1.7E-08
	Indeno(1,2,3-cd)pyrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	1.2E-08	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	8.4E-09
	Phenanthrene	1.2E+01	mg/kg	1.2E+01	mg/kg	M	7.9E-08	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Aroclor 1248	2.6E-01	mg/kg	2.6E-01	mg/kg	M	1.8E-09	mg/kg-day	1.0E+00	(mg/kg-day)$^{-1}$	1.8E-09
	Antimony	1.0E+00	mg/kg	1.0E+00	mg/kg	M	7.1E-09	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Arsenic	3.3E+01	mg/kg	3.3E+01	mg/kg	M	2.2E-07	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	3.3E-07
	Cadmium	2.2E+00	mg/kg	2.2E+00	mg/kg	M	1.5E-08	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Chromium	4.1E+02	mg/kg	4.1E+02	mg/kg	M	2.8E-06	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Copper	9.3E+01	mg/kg	9.3E+01	mg/kg	M	6.3E-07	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Lead										
	Manganese	2.1E+02	mg/kg	2.1E+02	mg/kg	M	1.4E-06	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Mercury	7.1E-01	mg/kg	7.1E-01	mg/kg	M	4.8E-09	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Vanadium	9.9E+01	mg/kg	9.9E+01	mg/kg	M	6.7E-07	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	(Total)										5.7E-07
Dermal											
	Benzo(a)anthracene	3.8E+00	mg/kg	3.8E+00	mg/kg	M	5.7E-08	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	4.1E-08
	Benzo(a)pyrene	3.2E+00	mg/kg	3.2E+00	mg/kg	M	4.7E-08	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	3.4E-07
	Benzo(b)fluoranthene	6.0E+00	mg/kg	6.0E+00	mg/kg	M	9.0E-08	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	6.5E-08
	Benzo(k)fluoranthene	9.6E+00	mg/kg	9.6E+00	mg/kg	M	1.4E-07	mg/kg-day	7.3E-02	(mg/kg-day)$^{-1}$	1.0E-08
	Dibenz(a,h)anthracene	3.5E-01	mg/kg	3.5E-01	mg/kg	M	5.2E-09	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	3.8E-08
	Indeno(1,2,3-cd)pyrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	2.5E-08	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	1.8E-08
	Phenanthrene	1.2E+01	mg/kg	1.2E+01	mg/kg	M	1.7E-07	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Aroclor 1248	2.6E-01	mg/kg	2.6E-01	mg/kg	M	4.2E-09	mg/kg-day	1.0E+00	(mg/kg-day)$^{-1}$	4.2E-09
	Arsenic	3.3E+01	mg/kg	3.3E+01	mg/kg	M	1.1E-07	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	1.7E-07
	Cadmium	2.2E+00	mg/kg	2.2E+00	mg/kg	M	2.5E-09	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	(Total)										6.9E-07
										Total Risk Across All Exposure Routes/Pathways	1E-06

(1) Medium-Specific (M) EPC selected for hazard calculation.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.21.RME
CALCULATION OF CANCER
REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: Wetland
Receptor Population: 4-Day Recreational User
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion											
	Benzo(a)anthracene	3.8E+00	mg/kg	3.8E+00	mg/kg	M	2.7E-07	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	1.9E-07
	Benzo(a)pyrene	3.2E+00	mg/kg	3.2E+00	mg/kg	M	2.2E-07	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	1.6E-06
	Benzo(b)fluoranthene	6.0E+00	mg/kg	6.0E+00	mg/kg	M	4.2E-07	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	3.1E-07
	Benzo(k)fluoranthene	9.6E+00	mg/kg	9.6E+00	mg/kg	M	6.7E-07	mg/kg-day	7.3E-02	(mg/kg-day)$^{-1}$	4.9E-08
	Dibenz(a,h)anthracene	3.5E-01	mg/kg	3.5E-01	mg/kg	M	2.4E-08	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	1.8E-07
	Indeno(1,2,3-cd)pyrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	1.2E-07	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	8.7E-08
	Phenanthrene	1.2E+01	mg/kg	1.2E+01	mg/kg	M	8.2E-07	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Aroclor 1248	2.6E-01	mg/kg	2.6E-01	mg/kg	M	1.8E-08	mg/kg-day	2.0E+00	(mg/kg-day)$^{-1}$	3.6E-08
	Antimony	1.0E+00	mg/kg	1.0E+00	mg/kg	M	7.3E-08	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Arsenic	3.3E+01	mg/kg	3.3E+01	mg/kg	M	2.3E-06	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	3.4E-06
	Cadmium	2.2E+00	mg/kg	2.2E+00	mg/kg	M	1.5E-07	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Chromium	4.1E+02	mg/kg	4.1E+02	mg/kg	M	2.9E-05	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Copper	9.3E+01	mg/kg	9.3E+01	mg/kg	M	6.5E-06	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Lead										
	Manganese	2.1E+02	mg/kg	2.1E+02	mg/kg	M	1.5E-05	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Mercury	7.1E-01	mg/kg	7.1E-01	mg/kg	M	5.0E-08	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Vanadium	9.9E+01	mg/kg	9.9E+01	mg/kg	M	6.9E-06	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	(Total)										5.9E-06
Dermal											
	Benzo(a)anthracene	3.8E+00	mg/kg	3.8E+00	mg/kg	M	2.8E-07	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	2.0E-07
	Benzo(a)pyrene	3.2E+00	mg/kg	3.2E+00	mg/kg	M	2.3E-07	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	1.7E-06
	Benzo(b)fluoranthene	6.0E+00	mg/kg	6.0E+00	mg/kg	M	4.4E-07	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	3.2E-07
	Benzo(k)fluoranthene	9.6E+00	mg/kg	9.6E+00	mg/kg	M	6.9E-07	mg/kg-day	7.3E-02	(mg/kg-day)$^{-1}$	5.1E-08
	Dibenz(a,h)anthracene	3.5E-01	mg/kg	3.5E-01	mg/kg	M	2.5E-08	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	1.8E-07
	Indeno(1,2,3-cd)pyrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	1.2E-07	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	9.0E-08
	Phenanthrene	1.2E+01	mg/kg	1.2E+01	mg/kg	M	8.5E-07	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Aroclor 1248	2.6E-01	mg/kg	2.6E-01	mg/kg	M	2.0E-08	mg/kg-day	2.0E+00	(mg/kg-day)$^{-1}$	4.1E-08
	Arsenic	3.3E+01	mg/kg	3.3E+01	mg/kg	M	5.5E-07	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	8.2E-07
	Cadmium	2.2E+00	mg/kg	2.2E+00	mg/kg	M	1.2E-08	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	(Total)										3.4E-06
										Total Risk Across All Exposure Routes/Pathways	9E-06

(1) Medium-Specific (M) EPC selected for hazard calculation.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.21.CT
CALCULATION OF CANCER RISKS
CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: Wetland
Receptor Population: 4-Day Recreational User
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion											
	Benzo(a)anthracene	3.8E+00	mg/kg	3.8E+00	mg/kg	M	2.9E-08	mg/kg-day	7.3E-01	$(mg/kg-day)^{-1}$	2.1E-08
	Benzo(a)pyrene	3.2E+00	mg/kg	3.2E+00	mg/kg	M	2.4E-08	mg/kg-day	7.3E+00	$(mg/kg-day)^{-1}$	1.8E-07
	Benzo(b)fluoranthene	6.0E+00	mg/kg	6.0E+00	mg/kg	M	4.6E-08	mg/kg-day	7.3E-01	$(mg/kg-day)^{-1}$	3.4E-08
	Benzo(k)fluoranthene	9.6E+00	mg/kg	9.6E+00	mg/kg	M	7.3E-08	mg/kg-day	7.3E-02	$(mg/kg-day)^{-1}$	5.3E-09
	Dibenz(a,h)anthracene	3.5E-01	mg/kg	3.5E-01	mg/kg	M	2.7E-09	mg/kg-day	7.3E+00	$(mg/kg-day)^{-1}$	1.9E-08
	Indeno(1,2,3-cd)pyrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	1.3E-08	mg/kg-day	7.3E-01	$(mg/kg-day)^{-1}$	9.5E-09
	Phenanthrene	1.2E+01	mg/kg	1.2E+01	mg/kg	M	8.9E-08	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	Aroclor 1248	2.6E-01	mg/kg	2.6E-01	mg/kg	M	2.0E-09	mg/kg-day	1.0E+00	$(mg/kg-day)^{-1}$	2.0E-09
	Antimony	1.0E+00	mg/kg	1.0E+00	mg/kg	M	8.0E-09	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	Arsenic	3.3E+01	mg/kg	3.3E+01	mg/kg	M	2.5E-07	mg/kg-day	1.5E+00	$(mg/kg-day)^{-1}$	3.7E-07
	Cadmium	2.2E+00	mg/kg	2.2E+00	mg/kg	M	1.7E-08	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	Chromium	4.1E+02	mg/kg	4.1E+02	mg/kg	M	3.1E-06	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	Copper	9.3E+01	mg/kg	9.3E+01	mg/kg	M	7.1E-07	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	Lead										
	Manganese	2.1E+02	mg/kg	2.1E+02	mg/kg	M	1.6E-06	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	Mercury	7.1E-01	mg/kg	7.1E-01	mg/kg	M	5.4E-09	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	Vanadium	9.9E+01	mg/kg	9.9E+01	mg/kg	M	7.6E-07	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	(Total)										6.4E-07
Dermal											
	Benzo(a)anthracene	3.8E+00	mg/kg	3.8E+00	mg/kg	M	6.0E-08	mg/kg-day	7.3E-01	$(mg/kg-day)^{-1}$	4.4E-08
	Benzo(a)pyrene	3.2E+00	mg/kg	3.2E+00	mg/kg	M	5.0E-08	mg/kg-day	7.3E+00	$(mg/kg-day)^{-1}$	3.7E-07
	Benzo(b)fluoranthene	6.0E+00	mg/kg	6.0E+00	mg/kg	M	9.6E-08	mg/kg-day	7.3E-01	$(mg/kg-day)^{-1}$	7.0E-08
	Benzo(k)fluoranthene	9.6E+00	mg/kg	9.6E+00	mg/kg	M	1.5E-07	mg/kg-day	7.3E-02	$(mg/kg-day)^{-1}$	1.1E-08
	Dibenz(a,h)anthracene	3.5E-01	mg/kg	3.5E-01	mg/kg	M	5.5E-09	mg/kg-day	7.3E+00	$(mg/kg-day)^{-1}$	4.0E-08
	Indeno(1,2,3-cd)pyrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	2.7E-08	mg/kg-day	7.3E-01	$(mg/kg-day)^{-1}$	2.0E-08
	Phenanthrene	1.2E+01	mg/kg	1.2E+01	mg/kg	M	1.9E-07	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	Aroclor 1248	2.6E-01	mg/kg	2.6E-01	mg/kg	M	4.5E-09	mg/kg-day	1.0E+00	$(mg/kg-day)^{-1}$	4.5E-09
	Arsenic	3.3E+01	mg/kg	3.3E+01	mg/kg	M	1.2E-07	mg/kg-day	1.5E+00	$(mg/kg-day)^{-1}$	1.8E-07
	Cadmium	2.2E+00	mg/kg	2.2E+00	mg/kg	M	2.6E-09	mg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
	(Total)										7.4E-07
										Total Risk Across All Exposure Routes/Pathways	1E-06

(1) Medium-Specific (M) EPC selected for hazard calculation.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.22.RME
CALCULATION OF CANCER RI
REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: Wetland
Receptor Population: 4-Day Recreational User
Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)anthracene	3.8E+00	mg/kg	3.8E+00	mg/kg	M	6.2E-07	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	4.5E-07
	Benzo(a)pyrene	3.2E+00	mg/kg	3.2E+00	mg/kg	M	5.2E-07	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	3.8E-06
	Benzo(b)fluoranthene	6.0E+00	mg/kg	6.0E+00	mg/kg	M	9.8E-07	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	7.2E-07
	Benzo(k)fluoranthene	9.6E+00	mg/kg	9.6E+00	mg/kg	M	1.6E-06	mg/kg-day	7.3E-02	(mg/kg-day)$^{-1}$	1.1E-07
	Dibenz(a,h)anthracene	3.5E-01	mg/kg	3.5E-01	mg/kg	M	5.7E-08	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	4.2E-07
	Indeno(1,2,3-cd)pyrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	2.8E-07	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	2.0E-07
	Phenanthrene	1.2E+01	mg/kg	1.2E+01	mg/kg	M	1.9E-06	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Aroclor 1248	2.6E-01	mg/kg	2.6E-01	mg/kg	M	4.3E-08	mg/kg-day	2.0E+00	(mg/kg-day)$^{-1}$	8.5E-08
	Antimony	1.0E+00	mg/kg	1.0E+00	mg/kg	M	1.7E-07	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Arsenic	3.3E+01	mg/kg	3.3E+01	mg/kg	M	5.3E-06	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	8.0E-06
	Cadmium	2.2E+00	mg/kg	2.2E+00	mg/kg	M	3.5E-07	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Chromium	4.1E+02	mg/kg	4.1E+02	mg/kg	M	6.7E-05	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Copper	9.3E+01	mg/kg	9.3E+01	mg/kg	M	1.5E-05	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Lead										
	Manganese	2.1E+02	mg/kg	2.1E+02	mg/kg	M	3.4E-05	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Mercury	7.1E-01	mg/kg	7.1E-01	mg/kg	M	1.2E-07	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Vanadium	9.9E+01	mg/kg	9.9E+01	mg/kg	M	1.6E-05	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	(Total)										1.4E-05
Dermal	Benzo(a)anthracene	3.8E+00	mg/kg	3.8E+00	mg/kg	M	6.8E-07	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	5.0E-07
	Benzo(a)pyrene	3.2E+00	mg/kg	3.2E+00	mg/kg	M	5.7E-07	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	4.1E-06
	Benzo(b)fluoranthene	6.0E+00	mg/kg	6.0E+00	mg/kg	M	1.1E-06	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	7.8E-07
	Benzo(k)fluoranthene	9.6E+00	mg/kg	9.6E+00	mg/kg	M	1.7E-06	mg/kg-day	7.3E-02	(mg/kg-day)$^{-1}$	1.2E-07
	Dibenz(a,h)anthracene	3.5E-01	mg/kg	3.5E-01	mg/kg	M	6.2E-08	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	4.5E-07
	Indeno(1,2,3-cd)pyrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	3.0E-07	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	2.2E-07
	Phenanthrene	1.2E+01	mg/kg	1.2E+01	mg/kg	M	2.1E-06	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Aroclor 1248	2.6E-01	mg/kg	2.6E-01	mg/kg	M	5.0E-08	mg/kg-day	2.0E+00	(mg/kg-day)$^{-1}$	1.0E-07
	Arsenic	3.3E+01	mg/kg	3.3E+01	mg/kg	M	1.3E-06	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	2.0E-06
	Cadmium	2.2E+00	mg/kg	2.2E+00	mg/kg	M	3.0E-08	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	(Total)										8.3E-06
										Total Risk Across All Exposure Routes/Pathways	2E-05

(1) Medium-Specific (M) EPC selected for hazard calculation.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.22.CT
CALCULATION OF CANCER R...
CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: Wetland
Receptor Population: 4-Day Recreational User
Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Benzo(a)anthracene	3.8E+00	mg/kg	3.8E+00	mg/kg	M	7.8E-08	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	5.7E-08
	Benzo(a)pyrene	3.2E+00	mg/kg	3.2E+00	mg/kg	M	6.5E-08	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	4.7E-07
	Benzo(b)fluoranthene	6.0E+00	mg/kg	6.0E+00	mg/kg	M	1.2E-07	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	9.0E-08
	Benzo(k)fluoranthene	9.6E+00	mg/kg	9.6E+00	mg/kg	M	2.0E-07	mg/kg-day	7.3E-02	(mg/kg-day)$^{-1}$	1.4E-08
	Dibenz(a,h)anthracene	3.5E-01	mg/kg	3.5E-01	mg/kg	M	7.1E-09	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	5.2E-08
	Indeno(1,2,3-cd)pyrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	3.5E-08	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	2.5E-08
	Phenanthrene	1.2E+01	mg/kg	1.2E+01	mg/kg	M	2.4E-07	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Aroclor 1248	2.6E-01	mg/kg	2.6E-01	mg/kg	M	5.3E-09	mg/kg-day	1.0E+00	(mg/kg-day)$^{-1}$	5.3E-09
	Antimony	1.0E+00	mg/kg	1.0E+00	mg/kg	M	2.1E-08	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Arsenic	3.3E+01	mg/kg	3.3E+01	mg/kg	M	6.7E-07	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	1.0E-06
	Cadmium	2.2E+00	mg/kg	2.2E+00	mg/kg	M	4.4E-08	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Chromium	4.1E+02	mg/kg	4.1E+02	mg/kg	M	8.3E-06	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Copper	9.3E+01	mg/kg	9.3E+01	mg/kg	M	1.9E-06	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Lead										
	Manganese	2.1E+02	mg/kg	2.1E+02	mg/kg	M	4.3E-06	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Mercury	7.1E-01	mg/kg	7.1E-01	mg/kg	M	1.4E-08	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Vanadium	9.9E+01	mg/kg	9.9E+01	mg/kg	M	2.0E-06	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	(Total)										1.7E-06
Dermal	Benzo(a)anthracene	3.8E+00	mg/kg	3.8E+00	mg/kg	M	1.7E-07	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	1.2E-07
	Benzo(a)pyrene	3.2E+00	mg/kg	3.2E+00	mg/kg	M	1.4E-07	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	1.0E-06
	Benzo(b)fluoranthene	6.0E+00	mg/kg	6.0E+00	mg/kg	M	2.7E-07	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	2.0E-07
	Benzo(k)fluoranthene	9.6E+00	mg/kg	9.6E+00	mg/kg	M	4.3E-07	mg/kg-day	7.3E-02	(mg/kg-day)$^{-1}$	3.1E-08
	Dibenz(a,h)anthracene	3.5E-01	mg/kg	3.5E-01	mg/kg	M	1.5E-08	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	1.1E-07
	Indeno(1,2,3-cd)pyrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	7.6E-08	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	5.5E-08
	Phenanthrene	1.2E+01	mg/kg	1.2E+01	mg/kg	M	5.2E-07	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Aroclor 1248	2.6E-01	mg/kg	2.6E-01	mg/kg	M	1.3E-08	mg/kg-day	1.0E+00	(mg/kg-day)$^{-1}$	1.3E-08
	Arsenic	3.3E+01	mg/kg	3.3E+01	mg/kg	M	3.4E-07	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	5.0E-07
	Cadmium	2.2E+00	mg/kg	2.2E+00	mg/kg	M	7.4E-09	mg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	(Total)										2.1E-06
										Total Risk Across All Exposure Routes/Pathways	4E-06

(1) Medium-Specific (M) EPC selected for hazard calculation.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.23.RME
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: Pond/Lake
Receptor Population: 1-Day Recreational User
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion											
	Antimony	1.4E+00	mg/kg	1.4E+00	mg/kg	M	2.4E-08	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	5.2E-07	mg/kg-day	1.5E+00	$(mg/kg\text{-}day)^{-1}$	7.8E-07
	Cadmium	2.9E+00	mg/kg	2.9E+00	mg/kg	M	5.1E-08	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	Chromium	1.6E+02	mg/kg	1.6E+02	mg/kg	M	2.7E-06	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	Copper	6.6E+01	mg/kg	6.6E+01	mg/kg	M	1.1E-06	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	
	Lead										
	Manganese	8.4E+02	mg/kg	8.4E+02	mg/kg	M	1.5E-05	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	Mercury	3.5E-01	mg/kg	3.5E-01	mg/kg	M	6.1E-09	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	
	Vanadium	5.2E+01	mg/kg	5.2E+01	mg/kg	M	9.0E-07	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	(Total)										7.8E-07
Dermal											
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	1.2E-07	mg/kg-day	1.5E+00	$(mg/kg\text{-}day)^{-1}$	1.9E-07
	Cadmium	2.9E+00	mg/kg	2.9E+00	mg/kg	M	4.0E-09	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	(Total)										1.9E-07
										Total Risk Across All Exposure Routes/Pathways	1E-06

(1) Medium-Specific (M) EPC selected for hazard calculation.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.23.CT
CALCULATION OF CANCER RISKS
CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: Pond/Lake
Receptor Population: 1-Day Recreational User
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion											
	Antimony	1.4E+00	mg/kg	1.4E+00	mg/kg	M	3.6E-09	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	7.6E-08	mg/kg-day	1.5E+00	$(mg/kg\text{-}day)^{-1}$	1.1E-07
	Cadmium	2.9E+00	mg/kg	2.9E+00	mg/kg	M	7.4E-09	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	Chromium	1.6E+02	mg/kg	1.6E+02	mg/kg	M	3.9E-07	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	Copper	6.6E+01	mg/kg	6.6E+01	mg/kg	M	1.7E-07	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	
	Lead										
	Manganese	8.4E+02	mg/kg	8.4E+02	mg/kg	M	2.1E-06	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	Mercury	3.5E-01	mg/kg	3.5E-01	mg/kg	M	8.9E-10	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	
	Vanadium	5.2E+01	mg/kg	5.2E+01	mg/kg	M	1.3E-07	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	(Total)										1.1E-07
Dermal											
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	3.6E-08	mg/kg-day	1.5E+00	$(mg/kg\text{-}day)^{-1}$	5.5E-08
	Cadmium	2.9E+00	mg/kg	2.9E+00	mg/kg	M	1.2E-09	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	(Total)										5.5E-08
										Total Risk Across All Exposure Routes/Pathways	2E-07

(1) Medium-Specific (M) EPC selected for hazard calculation.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.24.RME
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: Pond/Lake
Receptor Population: 1-Day Recreational User
Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion											
	Antimony	1.4E+00	mg/kg	1.4E+00	mg/kg	M	5.7E-08	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	1.2E-06	mg/kg-day	1.5E+00	$(mg/kg\text{-}day)^{-1}$	1.8E-06
	Cadmium	2.9E+00	mg/kg	2.9E+00	mg/kg	M	1.2E-07	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	Chromium	1.6E+02	mg/kg	1.6E+02	mg/kg	M	6.3E-06	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	Copper	6.6E+01	mg/kg	6.6E+01	mg/kg	M	2.7E-06	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	
	Lead										
	Manganese	8.4E+02	mg/kg	8.4E+02	mg/kg	M	3.4E-05	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	Mercury	3.5E-01	mg/kg	3.5E-01	mg/kg	M	1.4E-08	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	
	Vanadium	5.2E+01	mg/kg	5.2E+01	mg/kg	M	2.1E-06	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	(Total)										1.8E-06
Dermal											
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	3.1E-07	mg/kg-day	1.5E+00	$(mg/kg\text{-}day)^{-1}$	4.6E-07
	Cadmium	2.9E+00	mg/kg	2.9E+00	mg/kg	M	9.9E-09	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	(Total)										4.6E-07
										Total Risk Across All Exposure Routes/Pathways	2E-06

(1) Medium-Specific (M) EPC selected for hazard calculation.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.24.CT
CALCULATION OF CANCER RISKS
CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: Pond/Lake
Receptor Population: 1-Day Recreational User
Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion											
	Antimony	1.4E+00	mg/kg	1.4E+00	mg/kg	M	9.5E-09	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	2.0E-07	mg/kg-day	1.5E+00	$(mg/kg\text{-}day)^{-1}$	3.0E-07
	Cadmium	2.9E+00	mg/kg	2.9E+00	mg/kg	M	2.0E-08	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	Chromium	1.6E+02	mg/kg	1.6E+02	mg/kg	M	1.1E-06	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	Copper	6.6E+01	mg/kg	6.6E+01	mg/kg	M	4.5E-07	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	
	Lead						5.7E-06	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	Manganese	8.4E+02	mg/kg	8.4E+02	mg/kg	M	2.4E-09	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	
	Mercury	3.5E-01	mg/kg	3.5E-01	mg/kg	M	3.5E-07	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	Vanadium	5.2E+01	mg/kg	5.2E+01	mg/kg	M					
	(Total)										3.0E-07
Dermal											
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	1.0E-07	mg/kg-day	1.5E+00	$(mg/kg\text{-}day)^{-1}$	1.5E-07
	Cadmium	2.9E+00	mg/kg	2.9E+00	mg/kg	M	3.3E-09	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	(Total)										1.5E-07
										Total Risk Across All Exposure Routes/Pathways	5E-07

(1) Medium-Specific (M) EPC selected for hazard calculation.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.25.RME
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: Pond/Lake
Receptor Population: 4-Day Recreational User
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion											
	Antimony	1.4E+00	mg/kg	1.4E+00	mg/kg	M	9.8E-08	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	2.1E-06	mg/kg-day	1.5E+00	$(mg/kg\text{-}day)^{-1}$	3.1E-06
	Cadmium	2.9E+00	mg/kg	2.9E+00	mg/kg	M	2.0E-07	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	Chromium	1.6E+02	mg/kg	1.6E+02	mg/kg	M	1.1E-05	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	Copper	6.6E+01	mg/kg	6.6E+01	mg/kg	M	4.6E-06	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	
	Lead										
	Manganese	8.4E+02	mg/kg	8.4E+02	mg/kg	M	5.8E-05	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	Mercury	3.5E-01	mg/kg	3.5E-01	mg/kg	M	2.4E-08	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	
	Vanadium	5.2E+01	mg/kg	5.2E+01	mg/kg	M	3.6E-06	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	(Total)										3.1E-06
Dermal											
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	5.0E-07	mg/kg-day	1.5E+00	$(mg/kg\text{-}day)^{-1}$	7.5E-07
	Cadmium	2.9E+00	mg/kg	2.9E+00	mg/kg	M	1.6E-08	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	(Total)										7.5E-07
										Total Risk Across All Exposure Routes/Pathways	4E-06

(1) Medium-Specific (M) EPC selected for hazard calculation.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.25.CT
CALCULATION OF CANCER RISKS
CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: Pond/Lake
Receptor Population: 4-Day Recreational User
Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion											
	Antimony	1.4E+00	mg/kg	1.4E+00	mg/kg	M	1.1E-08	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	2.3E-07	mg/kg-day	1.5E+00	$(mg/kg\text{-}day)^{-1}$	3.4E-07
	Cadmium	2.9E+00	mg/kg	2.9E+00	mg/kg	M	2.2E-08	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	Chromium	1.6E+02	mg/kg	1.6E+02	mg/kg	M	1.2E-06	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	Copper	6.6E+01	mg/kg	6.6E+01	mg/kg	M	5.0E-07	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	
	Lead										
	Manganese	8.4E+02	mg/kg	8.4E+02	mg/kg	M	6.4E-06	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	Mercury	3.5E-01	mg/kg	3.5E-01	mg/kg	M	2.7E-09	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	
	Vanadium	5.2E+01	mg/kg	5.2E+01	mg/kg	M	3.9E-07	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	(Total)										3.4E-07
Dermal											
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	1.1E-07	mg/kg-day	1.5E+00	$(mg/kg\text{-}day)^{-1}$	1.6E-07
	Cadmium	2.9E+00	mg/kg	2.9E+00	mg/kg	M	3.5E-09	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	(Total)										1.6E-07
										Total Risk Across All Exposure Routes/Pathways	5E-07

(1) Medium-Specific (M) EPC selected for hazard calculation.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.26.RME
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: Pond/Lake
Receptor Population: 4-Day Recreational User
Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion											
	Antimony	1.4E+00	mg/kg	1.4E+00	mg/kg	M	2.3E-07	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	4.9E-06	mg/kg-day	1.5E+00	$(mg/kg\text{-}day)^{-1}$	7.3E-06
	Cadmium	2.9E+00	mg/kg	2.9E+00	mg/kg	M	4.7E-07	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	Chromium	1.6E+02	mg/kg	1.6E+02	mg/kg	M	2.5E-05	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	Copper	6.6E+01	mg/kg	6.6E+01	mg/kg	M	1.1E-05	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	
	Lead										
	Manganese	8.4E+02	mg/kg	8.4E+02	mg/kg	M	1.4E-04	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	Mercury	3.5E-01	mg/kg	3.5E-01	mg/kg	M	5.7E-08	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	
	Vanadium	5.2E+01	mg/kg	5.2E+01	mg/kg	M	8.4E-06	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	(Total)										7.3E-06
Dermal											
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	1.2E-06	mg/kg-day	1.5E+00	$(mg/kg\text{-}day)^{-1}$	1.8E-06
	Cadmium	2.9E+00	mg/kg	2.9E+00	mg/kg	M	4.0E-08	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	(Total)										1.8E-06
										Total Risk Across All Exposure Routes/Pathways	9E-06

(1) Medium-Specific (M) EPC selected for hazard calculation.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.26.CT
CALCULATION OF CANCER RISKS
CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: Pond/Lake
Receptor Population: 4-Day Recreational User
Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Antimony	1.4E+00	mg/kg	1.4E+00	mg/kg	M	2.8E-08	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	6.1E-07	mg/kg-day	1.5E+00	$(mg/kg\text{-}day)^{-1}$	9.1E-07
	Cadmium	2.9E+00	mg/kg	2.9E+00	mg/kg	M	5.9E-08	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	Chromium	1.6E+02	mg/kg	1.6E+02	mg/kg	M	3.2E-06	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	Copper	6.6E+01	mg/kg	6.6E+01	mg/kg	M	1.3E-06	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	
	Lead						1.7E-05	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	Manganese	8.4E+02	mg/kg	8.4E+02	mg/kg	M	7.1E-09	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	
	Mercury	3.5E-01	mg/kg	3.5E-01	mg/kg	M	1.0E-06	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	Vanadium	5.2E+01	mg/kg	5.2E+01	mg/kg	M					9.1E-07
	(Total)										
Dermal	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	3.1E-07	mg/kg-day	1.5E+00	$(mg/kg\text{-}day)^{-1}$	4.6E-07
	Cadmium	2.9E+00	mg/kg	2.9E+00	mg/kg	M	9.9E-09	mg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	(Total)										4.6E-07
										Total Risk Across All Exposure Routes/Pathways	1E-06

(1) Medium-Specific (M) EPC selected for hazard calculation.
N/A = Not Applicable
EPC = Exposure Point Concentration
Cancer Risk = Cancer Intake x Cancer Slope Factor